

ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy

AECOM

1001 Bishop Street
Honolulu HI 96813

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JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-123350-1

Eurofins Seattle

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

Qualifiers

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|---------------------------------------|
| M | Manual integrated compound. |
| U | Undetected at the Limit of Detection. |

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| ☒ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

CASE NARRATIVE
Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-123350-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Three samples were received on 2/9/2023 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.7° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-HDMW225303-WGN01LF-2302W1 (580-123350-1), AF-RHMW10-WGN01LF-2302W1 (580-123350-2) and AF-RHMW10-WGFD01LF-2302W1 (580-123350-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI.
The samples were analyzed on 02/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

Client Sample ID: AF-HDMW225303-WGN01LF-2302W1

Lab Sample ID: 580-123350-1

No Detections.

Client Sample ID: AF-RHMW10-WGN01LF-2302W1

Lab Sample ID: 580-123350-2

No Detections.

Client Sample ID: AF-RHMW10-WGFD01LF-2302W1

Lab Sample ID: 580-123350-3

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

Client Sample ID: AF-HDMW225303-WGN01LF-2302W1

Lab Sample ID: 580-123350-1

Matrix: Water

Date Collected: 02/07/23 10:00

Date Received: 02/09/23 11:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M | 5.0 | 1.1 | mg/L | | | 02/14/23 00:30 | 1 |

Client Sample ID: AF-RHMW10-WGN01LF-2302W1

Lab Sample ID: 580-123350-2

Matrix: Water

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 11:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U | 5.0 | 1.1 | mg/L | | | 02/14/23 01:40 | 1 |

Client Sample ID: AF-RHMW10-WGFD01LF-2302W1

Lab Sample ID: 580-123350-3

Matrix: Water

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 11:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U | 5.0 | 1.1 | mg/L | | | 02/14/23 04:46 | 1 |

Default Detection Limits

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

| Analyte | LOQ | DL | Units |
|---------------------------|-----|-----|-------|
| 2-(2-Butoxyethoxy)ethanol | 5.0 | 1.1 | mg/L |

QC Sample Results

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-763222/10

Matrix: Water

Analysis Batch: 763222

| Analyte | MB Result | MB Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M | 5.0 | 1.1 | mg/L | | | 02/13/23 21:24 | 1 |

Lab Sample ID: LCS 680-763222/6

Matrix: Water

Analysis Batch: 763222

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|----------------|---------------|------------------|------|---|------|----------------|
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 17.3 | | mg/L | | 86 | 50 - 150 |

Lab Sample ID: LCSD 680-763222/7

Matrix: Water

Analysis Batch: 763222

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 17.1 | | mg/L | | 86 | 50 - 150 | 1 | 50 |

Lab Sample ID: 580-123350-1 MS

Matrix: Water

Analysis Batch: 763222

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M | 20.0 | 17.6 | | mg/L | | 88 | 50 - 150 |

Lab Sample ID: 580-123350-1 MSD

Matrix: Water

Analysis Batch: 763222

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M | 20.0 | 18.7 | | mg/L | | 93 | 50 - 150 | 6 | 50 |

Client Sample ID: Method Blank
Prep Type: Total/NA

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Client Sample ID: AF-HDMW225303-WGN01LF-2302W1
Prep Type: Total/NA

Client Sample ID: AF-HDMW225303-WGN01LF-2302W1
Prep Type: Total/NA

QC Association Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

GC Semi VOA

Analysis Batch: 763222

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------------|-----------|--------|-----------|------------|
| 580-123350-1 | AF-HDMW225303-WGN01LF-2302W1 | Total/NA | Water | 8015C GLY | |
| 580-123350-2 | AF-RHMW10-WGN01LF-2302W1 | Total/NA | Water | 8015C GLY | |
| 580-123350-3 | AF-RHMW10-WGFD01LF-2302W1 | Total/NA | Water | 8015C GLY | |
| MB 680-763222/10 | Method Blank | Total/NA | Water | 8015C GLY | |
| LCS 680-763222/6 | Lab Control Sample | Total/NA | Water | 8015C GLY | |
| LCSD 680-763222/7 | Lab Control Sample Dup | Total/NA | Water | 8015C GLY | |
| 580-123350-1 MS | AF-HDMW225303-WGN01LF-2302W1 | Total/NA | Water | 8015C GLY | |
| 580-123350-1 MSD | AF-HDMW225303-WGN01LF-2302W1 | Total/NA | Water | 8015C GLY | |

Lab Chronicle

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

Client Sample ID: AF-HDMW225303-WGN01LF-2302W1

Lab Sample ID: 580-123350-1

Matrix: Water

Date Collected: 02/07/23 10:00

Date Received: 02/09/23 11:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 763222 | GEM | EET SAV | 02/14/23 00:30 |

Client Sample ID: AF-RHMW10-WGN01LF-2302W1

Lab Sample ID: 580-123350-2

Matrix: Water

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 11:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 763222 | GEM | EET SAV | 02/14/23 01:40 |

Client Sample ID: AF-RHMW10-WGFD01LF-2302W1

Lab Sample ID: 580-123350-3

Matrix: Water

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 11:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 763222 | GEM | EET SAV | 02/14/23 04:46 |

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Seattle

Accreditation/Certification Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|-----------------------|-----------------------|-----------------|
| ANAB | Dept. of Defense ELAP | L2463 | 09-22-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|---------------------------|
| 8015C GLY | | Water | 2-(2-Butoxyethoxy)ethanol |

Method Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

| Method | Method Description | Protocol | Laboratory |
|-----------|------------------------------------|----------|------------|
| 8015C GLY | Glycols- Direct Injection (GC/FID) | SW846 | EET SAV |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123350-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------------------|--------|----------------|----------------|
| 580-123350-1 | AF-HDMW225303-WGN01LF-2302W1 | Water | 02/07/23 10:00 | 02/09/23 11:00 |
| 580-123350-2 | AF-RHMW10-WGN01LF-2302W1 | Water | 02/07/23 12:05 | 02/09/23 11:00 |
| 580-123350-3 | AF-RHMW10-WGFD01LF-2302W1 | Water | 02/07/23 12:05 | 02/09/23 11:00 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Instrument ID: CVGG2

Analysis Batch Number: 761417

Lab Sample ID: IC 680-761417/2

Client Sample ID: _____

Date Analyzed: 01/31/23 16:10

Lab File ID: GA31009.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.61 | Baseline Smoothing | SWK1 | 02/01/23 12:15 |

Lab Sample ID: ICIS 680-761417/5

Client Sample ID: _____

Date Analyzed: 01/31/23 17:20

Lab File ID: GA31012.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.60 | Baseline Smoothing | SWK1 | 02/01/23 12:16 |

Lab Sample ID: IC 680-761417/6

Client Sample ID: _____

Date Analyzed: 01/31/23 17:43

Lab File ID: GA31013.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.60 | Baseline Smoothing | SWK1 | 02/01/23 12:16 |
| Ethylene glycol | 6.85 | Baseline Smoothing | SWK1 | 02/01/23 12:16 |

Lab Sample ID: IC 680-761417/7

Client Sample ID: _____

Date Analyzed: 01/31/23 18:07

Lab File ID: GA31014.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.60 | Baseline Smoothing | SWK1 | 02/01/23 12:16 |
| Ethylene glycol | 6.85 | Baseline Smoothing | SWK1 | 02/01/23 12:16 |

8015C GLY

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins SavannahJob No.: 580-123350-1

SDG No.: _____

Instrument ID: CVGG2Analysis Batch Number: 761417Lab Sample ID: IC 680-761417/8

Client Sample ID: _____

Date Analyzed: 01/31/23 18:30Lab File ID: GA31015.DGC Column: J&W DB WAXID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|-------------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.61 | Baseline Smoothing | SWK1 | 02/01/23 12:17 |
| Ethylene glycol | 6.87 | Baseline Smoothing | SWK1 | 02/01/23 12:17 |

8015C GLY

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Instrument ID: CVGG2

Analysis Batch Number: 763222

Lab Sample ID: MB 680-763222/10

Client Sample ID: _____

Date Analyzed: 02/13/23 21:24

Lab File ID: GB13010.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------------|----------------|---------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-(2-Butoxyethoxy)ethanol | | Invalid Compound ID | SK9U | 02/14/23 19:40 |

Lab Sample ID: 580-123350-1

Client Sample ID: AF-HDMW225303-WGN01LF-2302W1

Date Analyzed: 02/14/23 00:30

Lab File ID: GB13018.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------------|----------------|---------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-(2-Butoxyethoxy)ethanol | | Invalid Compound ID | SK9U | 02/14/23 19:43 |

Lab Sample ID: 580-123350-1 MS

Client Sample ID: _____

Date Analyzed: 02/14/23 00:53

Lab File ID: GB13019.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| n-Heptyl Alcohol | 4.49 | Baseline Smoothing | SK9U | 02/14/23 19:44 |

Lab Sample ID: 580-123350-1 MSD

Client Sample ID: _____

Date Analyzed: 02/14/23 01:17

Lab File ID: GB13020.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| n-Heptyl Alcohol | 4.49 | Baseline Smoothing | SK9U | 02/14/23 19:44 |

Lab Sample ID: CCV 680-763222/26

Client Sample ID: _____

Date Analyzed: 02/14/23 03:36

Lab File ID: GB13026.D

GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-Butoxyethanol | 4.01 | Baseline Smoothing | SK9U | 02/14/23 19:48 |
| Propylene glycol | 6.61 | Baseline Smoothing | SK9U | 02/14/23 19:48 |

8015C GLY

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins SavannahJob No.: 580-123350-1

SDG No.: _____

Instrument ID: CVGG2Analysis Batch Number: 763222Lab Sample ID: CCV 680-763222/35

Client Sample ID: _____

Date Analyzed: 02/14/23 07:06Lab File ID: GB13035.DGC Column: J&W DB WAXID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|-------------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-Butoxyethanol | 4.01 | Baseline Smoothing | SK9U | 02/14/23 19:52 |
| Propylene glycol | 6.69 | Baseline Smoothing | SK9U | 02/14/23 19:52 |

8015C GLY

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.:

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-------------------|----------|-----------|-------------------------|----------------------|---------------------|--------------|---------------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| SG_Gly_CAL_00052 | 06/30/23 | | o2si, Lot 480919 | | (Purchased Reagent) | | 2,2'-Oxybisethanol | 2000 ug/mL |
| | | | | | | | 2-(2-Butoxyethoxy)ethanol | 2000 ug/mL |
| | | | | | | | 2-Butoxyethanol | 2000 ug/mL |
| | | | | | | | 4-Hydroxy-4-methyl-2-pentanone | 2000 ug/mL |
| | | | | | | | Dipropylene Glycol Methyl Ether | 2000 ug/mL |
| | | | | | | | Ethanol, 2-propoxy | 2000 ug/mL |
| | | | | | | | Ethylene glycol | 2000 ug/mL |
| | | | | | | | Propylene glycol | 2000 ug/mL |
| | | | | | | | Tetraethylene Glycol | 4000 ug/mL |
| | | | | | | | Triethylene Glycol | 2000 ug/mL |
| SG_GLY_ITSD_00105 | 07/11/23 | | Agilent, Lot 0006720623 | | (Purchased Reagent) | | n-Heptyl Alcohol | 5000 ug/mL |
| SG_GlyICV_00052 | 06/30/23 | | o2si, Lot 454407 | | (Purchased Reagent) | | 2-(2-Butoxyethoxy)ethanol | 2000 ug/mL |

Reagent

SG_Gly_CAL_00052



ISO/IEC 17025 Accredited
Chemical Testing Lab
Cert. No. 3031.01



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Page 1 of 3

| Catalog No. | Lot No. | Storage | Solvent | Date Received | Exp. Date |
|---------------|---------|----------|--------------|---------------|------------|
| G34-120070-04 | 480919 | ≤ -10 °C | P/T Methanol | | 2-May-2024 |

Description:

ISO 17034 -Custom Volatiles Mix, 105-12, 2000 & 4,000 mg/L, 1 mL

Container:

1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration |
|-------------------------------------|------------|------------|-----------------------|-----------------|
| 2-butoxyethanol | 111-76-2 | 99.6 | 311.9.2P | 1986 ± 100 mg/L |
| diethylene glycol butyl ether | 112-34-5 | 99.8 | 2323.7.2P | 2008 ± 100 mg/L |
| propyl cellosolve | 2807-30-9 | 99.9 | 1570.7.2P | 1980 ± 100 mg/L |
| dipropylene glycol monomethyl ether | 34590-94-8 | 99.7 | 2333.7.2P | 2014 ± 100 mg/L |
| ethylene glycol | 107-21-1 | 100 | 307.201.1P | 1968 ± 99 mg/L |
| di(ethylene glycol) | 111-46-6 | 99.5 | 309.7.2P | 1994 ± 100 mg/L |
| tri(ethylene glycol) | 112-27-6 | 99.9 | 310.7.2.1.1P | 1974 ± 110 mg/L |
| 4-Hydroxy-4-methyl-2-pentanone | 123-42-2 | 98 | 2334.286.1P | 1991 ± 110 mg/L |
| 1,2-propanediol | 57-55-6 | 99.5 | 306.9.3P | 1998 ± 100 mg/L |
| tetraethylene glycol | 112-60-7 | 98 | 3754.7.1P | 3959 ± 200 mg/L |

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

Page 2 of 3

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2, u_c = the combined uncertainty

$u_c = (\sum_{i=1}^n u_i^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:



Brian Stokes
3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman
14 -Jun-2022

Quality Control Chemist I

7290B Investment Drive • North Charleston, SC 29418
Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

Released By:



Susan Mathews
14 -Jun-2022

Quality Control Team Lead

Certificate of Analysis

Page 3 of 3

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2-May-2024

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 2-May-2024

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:



Brian Stokes

3-May-2022

Production Chemist I

Certified By:



Tyler Sherman

14-Jun-2022

Quality Control Chemist I

7290B Investment Drive • North Charleston, SC 29418
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Released By:



Susan Mathews

14-Jun-2022

Quality Control Team Lead

Reagent

SG_GLY_ISTD_00105

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard

Lot Number: 0006720623

Product Number: CUS-6046

Lot Issue Date: 15-Dec-2022

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Jan-2025

| Component Name | CERTIFIED VALUES | | CAS# | Analyte Lot |
|----------------|------------------|----------------------|-------------|-------------|
| | Concentration | Expanded Uncertainty | | |
| n-heptanol | 5001 | ± 25 µg/mL | 000111-70-6 | RM04540 |

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was utilized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025

Reagent

SG_GlyICV_00052



ISO/IEC 17025 Accredited
Chemical Testing Lab
Cert. No. 3031.01



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Page 1 of 3

| Catalog No. | Lot No. | Storage | Solvent | Date Received | Exp. Date |
|------------------|---------|----------|--------------|---------------|------------|
| G34-120070-04-SS | 454407 | ≤ -10 °C | P/T Methanol | | 1-Jul-2023 |

Description:

ISO 17034 -Custom Volatiles Mix,105-12, Second Source, 2000 & 4,000 mg/L, 1 mL

Container:
1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration |
|-------------------------------------|------------|------------|-----------------------|-----------------|
| 2-butoxyethanol | 111-76-2 | 99.5 | 311.7.1.1S | 1994 ± 100 mg/L |
| diethylene glycol butyl ether | 112-34-5 | 99.8 | 2323.7.2.1S | 1992 ± 100 mg/L |
| 2-propoxyethanol | 2807-30-9 | 99.5 | 1570.7.1S | 1998 ± 110 mg/L |
| dipropylene glycol monomethyl ether | 34590-94-8 | 99.7 | 2333.7.2.1S | 1998 ± 100 mg/L |
| ethylene glycol | 107-21-1 | 100 | 307.201.1.1S | 2016 ± 100 mg/L |
| di(ethylene glycol) | 111-46-6 | 99.9 | 309.7.1.1S | 1998 ± 100 mg/L |
| tri(ethylene glycol) | 112-27-6 | 99.9 | 310.7.3.1S | 2010 ± 100 mg/L |
| 4-Hydroxy-4-methyl-2-pentanone | 123-42-2 | 98 | 2334.286.1.1S | 2003 ± 110 mg/L |
| 1,2-propanediol | 57-55-6 | 99.6 | 306.370.1.1S | 2004 ± 110 mg/L |
| tetraethylene glycol | 112-60-7 | 98 | 3754.7.1.1S | 4049 ± 200 mg/L |

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

Page 2 of 2

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1-Jul-2023

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)

y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2, u_c = the combined uncertainty
 $u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{ts}}^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:

Jared Ball

1-Jul-2021

Production Chemist I

Certified By:

Claire Desrochers

7-Jul-2021

Quality Control Chemist I

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Released By:

Susan Mathews

8-Jul-2021

Quality Control Team Lead

Certificate of Analysis

Page 3 of 3

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 1-Jul-2023

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:

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1 -Jul-2021

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7 -Jul-2021

Quality Control Chemist I

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Released By:

Susan Mathews

8 -Jul-2021

Quality Control Team Lead

Method 8015C - DAI Glycols

**Glycols -Direct Injection (GC/FID) -
Method 8015C**

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GB13006.D

Lab ID: LCS 680-763222/6 Client ID: _____

| COMPOUND | SPIKE ADDED (mg/L) | LCS CONCENTRATION (mg/L) | LCS % REC | QC LIMITS REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 17.3 | 86 | 50-150 | |

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-123350-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GB13007.D

Lab ID: LCSD 680-763222/7 Client ID: _____

| COMPOUND | SPIKE ADDED (mg/L) | LCSD CONCENTRATION (mg/L) | LCSD % | REC | QC LIMITS | | # |
|---------------------------|--------------------------|---------------------------------|-----------|-----|-----------|--------|---|
| | | | | | RPD | REC | |
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 17.1 | 86 | 1 | 50 | 50-150 | |

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-123350-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GB13019.D

Lab ID: 580-123350-1 MS Client ID: AF-HDMW225303-WGN01LF-2302W1 MS

| COMPOUND | SPIKE ADDED (mg/L) | SAMPLE CONCENTRATION (mg/L) | MS CONCENTRATION (mg/L) | MS % REC | QC LIMITS REC | # |
|---------------------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 3.0 U | 17.6 | 88 | 50-150 | |

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-123350-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GB13020.D

Lab ID: 580-123350-1 MSD Client ID: AF-HDMW225303-WGN01LF-2302W1 MS

| COMPOUND | SPIKE ADDED (mg/L) | MSD CONCENTRATION (mg/L) | MSD % | REC | QC LIMITS | | # |
|---------------------------|--------------------------|--------------------------------|----------|-----|-----------|--------|---|
| | | | | | RPD | REC | |
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 18.7 | 93 | 6 | 50 | 50-150 | |

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123350-1
SDG No.: _____
Lab Sample ID: MB 680-763222/10
Matrix: Water Date Extracted: _____
Lab File ID: (1) GB13010.D Lab File ID: (2) _____
Date Analyzed: (1) 02/13/2023 21:24 Date Analyzed: (2) _____
Instrument ID: (1) CVGG2 Instrument ID: (2) _____
GC Column: (1) J&W DB WAX ID: 0.45 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|--------------------------------------|-------------------|------------------|-----------------|
| | LCS 680-763222/6 | 02/13/2023 19:51 | |
| | LCSD 680-763222/7 | 02/13/2023 20:14 | |
| AF-HDMW225303-WGN01LF-23 02W1 | 580-123350-1 | 02/14/2023 00:30 | |
| AF-HDMW225303-WGN01LF-23 02W1 MS | 580-123350-1 MS | 02/14/2023 00:53 | |
| AF-HDMW225303-WGN01LF-23 02W1 MSD | 580-123350-1 MSD | 02/14/2023 01:17 | |
| AF-RHMW10-WGN01LF-2302W1 | 580-123350-2 | 02/14/2023 01:40 | |
| AF-RHMW10-WGFD01LF-2302W1 | 580-123350-3 | 02/14/2023 04:46 | |

FORM VIII
GC SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123350-1
SDG No.: _____
Sample No.: CCVIS 680-763222/5 Date Analyzed: 02/13/2023 19:28
Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
Lab File ID (Standard): GB13005.D Heated Purge: (Y/N) N
Calibration ID: 89543

| | nHPA | | # | RT # | # | RT # |
|-------------------|--------------------------------------|---------|------|------|---|------|
| | AREA # | RT # | | | | |
| 12/24 HOUR STD | 4662971 | 4.49 | | | | |
| UPPER LIMIT | 9325942 | 4.99 | | | | |
| LOWER LIMIT | 2331486 | 3.99 | | | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | |
| LCS 680-763222/6 | | 4145569 | 4.49 | | | |
| LCSD 680-763222/7 | | 5204375 | 4.49 | | | |
| MB 680-763222/10 | | 4991434 | 4.49 | | | |
| 580-123350-1 | AF-HDMW225303-WGN01 LF-2302W1 | 5561570 | 4.49 | | | |
| 580-123350-1 MS | AF-HDMW225303-WGN01 LF-2302W1 MS | 4487945 | 4.49 | | | |
| 580-123350-1 MSD | AF-HDMW225303-WGN01 LF-2302W1 MSD | 4246746 | 4.49 | | | |
| 580-123350-2 | AF-RHMW10-WGN01LF-2 302W1 | 5751175 | 4.49 | | | |
| CCV 680-763222/26 | | 5905273 | 4.49 | | | |
| 580-123350-3 | AF-RHMW10-WGFD01LF- 2302W1 | 5304008 | 4.48 | | | |
| CCV 680-763222/35 | | 5156643 | 4.48 | | | |

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: AF-HDMW225303-WGN01LF-230
2W1 Lab Sample ID: 580-123350-1

Matrix: Water

Lab File ID: GB13018.D

Analysis Method: 8015C GLY

Date Collected: 02/07/2023 10:00

Extraction Method: _____

Date Extracted: _____

Sample wt/vol: 1 (mL)

Date Analyzed: 02/14/2023 00:30

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 1 (uL)

GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 763222

Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|-----|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 3.0 | U M | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13018.D
 Lims ID: 580-123350-B-1
 Client ID: AF-HDMW225303-WGN01LF-2302W1
 Sample Type: Client
 Inject. Date: 14-Feb-2023 00:30:38 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-018
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:53:19 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:43:04

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | OnCol Amt ug/ml | Flags |
|--------------|------------------|------------------|----------|--------------------|-------|
|--------------|------------------|------------------|----------|--------------------|-------|

* 4 n-Heptyl Alcohol

4.486 4.482 0.004 5561570 50.0

Reagents:

SG_GLY_ISTD_00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 14-Feb-2023 19:53:49

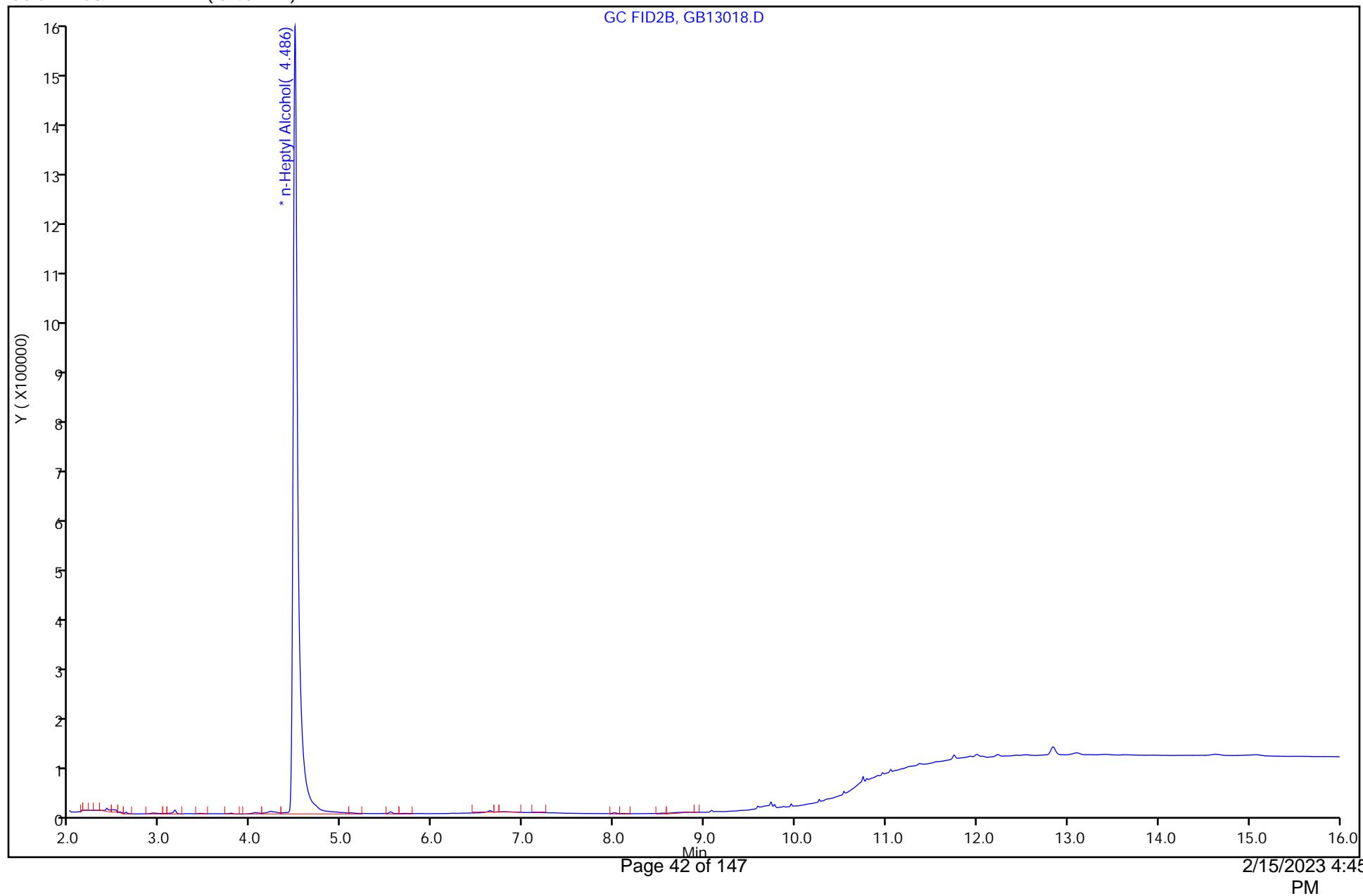
Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13018.D
Injection Date: 14-Feb-2023 00:30:38 Instrument ID: CVGG2
Lims ID: 580-123350-B-1 Lab Sample ID: 680-123350-1
Client ID: AF-HDMW225303-WGN01LF-2302W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 18

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: AF-RHMW10-WGN01LF-2302W1 Lab Sample ID: 580-123350-2

Matrix: Water Lab File ID: GB13021.D

Analysis Method: 8015C GLY Date Collected: 02/07/2023 12:05

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 02/14/2023 01:40

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____ Units: mg/L

Analysis Batch No.: 763222

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 3.0 | U | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13021.D
 Lims ID: 580-123350-A-2
 Client ID: AF-RHMW10-WGN01LF-2302W1
 Sample Type: Client
 Inject. Date: 14-Feb-2023 01:40:27 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-021
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:53:19 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | OnCol Amt ug/ml | Flags |
|--------------|------------------|------------------|----------|--------------------|-------|
|--------------|------------------|------------------|----------|--------------------|-------|

* 4 n-Heptyl Alcohol

| | | | | | |
|-----------------------------|-------|-------|---------|-------|---|
| 4.489 | 4.482 | 0.007 | 5751175 | 50.0 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | 7 | |
| 8.741 | 8.737 | 0.004 | 4111 | -3.10 | 7 |

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

| | | | |
|-------------------|---------------------|-----------|-------------|
| SG_GLY_ITSD_00105 | Amount Added: 10.00 | Units: uL | Run Reagent |
|-------------------|---------------------|-----------|-------------|

Report Date: 14-Feb-2023 19:53:47

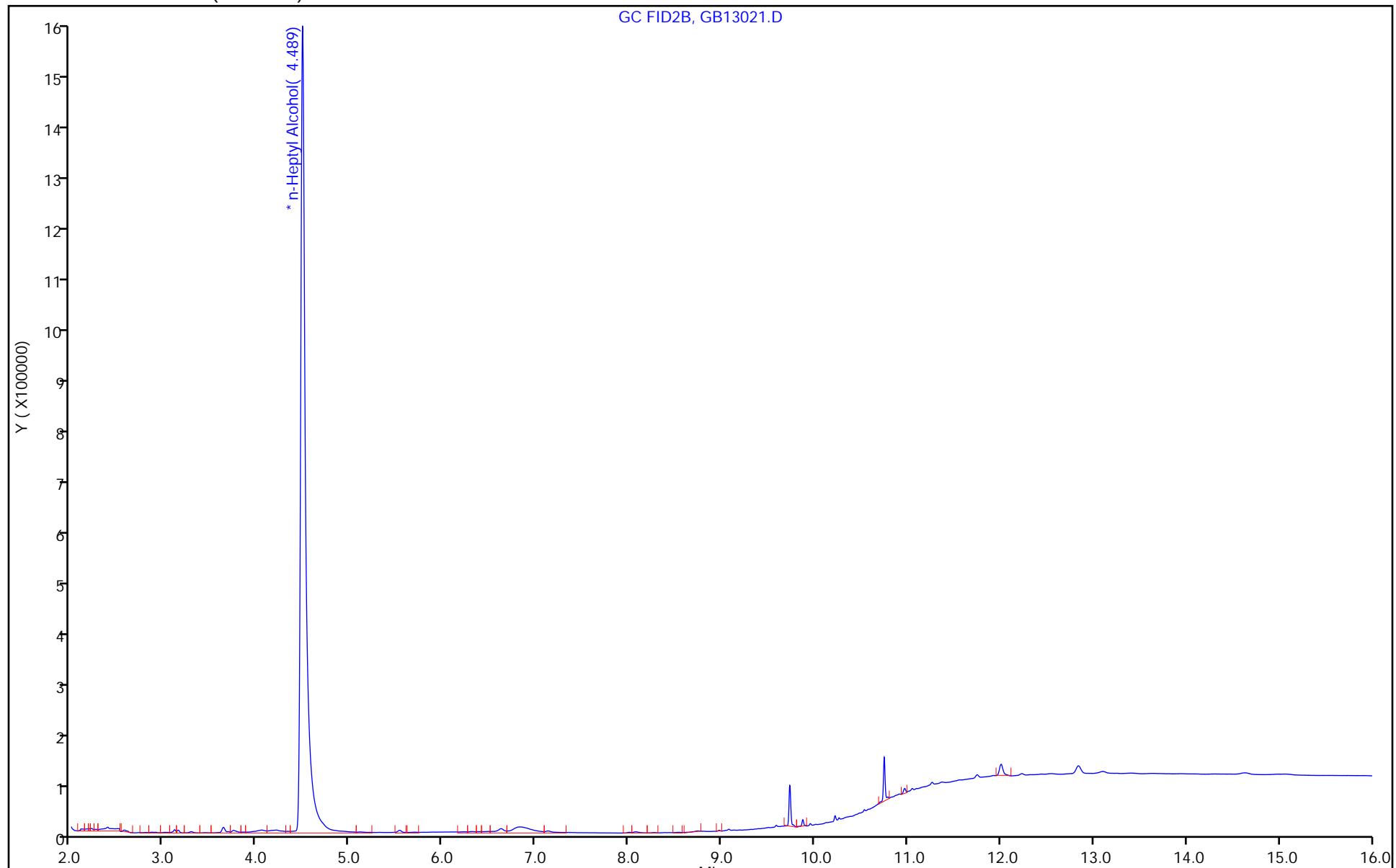
Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13021.D
Injection Date: 14-Feb-2023 01:40:27 Instrument ID: CVGG2
Lims ID: 580-123350-A-2 Lab Sample ID: 680-123350-2
Client ID: AF-RHMW10-WGN01LF-2302W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 21

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: AF-RHMW10-WGFD01LF-2302W1 Lab Sample ID: 580-123350-3

Matrix: Water Lab File ID: GB13029.D

Analysis Method: 8015C GLY Date Collected: 02/07/2023 12:05

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 02/14/2023 04:46

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____ Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 3.0 | U | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13029.D
 Lims ID: 580-123350-A-3
 Client ID: AF-RHMW10-WGFD01LF-2302W1
 Sample Type: Client
 Inject. Date: 14-Feb-2023 04:46:31 ALS Bottle#: 0 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-029
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:53:19 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | OnCol Amt ug/ml | Flags |
|--------------|------------------|------------------|----------|--------------------|-------|
|--------------|------------------|------------------|----------|--------------------|-------|

* 4 n-Heptyl Alcohol

| | | | | | |
|-------|---------------------------|--------|---------|-------|---|
| 4.478 | 4.482 | -0.004 | 5304008 | 50.0 | |
| 8 | 2-(2-Butoxyethoxy)ethanol | | | 7 | |
| 8.745 | 8.737 | 0.008 | 6505 | -3.05 | 7 |

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

| | | | |
|-------------------|---------------------|-----------|-------------|
| SG_GLY_ITSD_00105 | Amount Added: 10.00 | Units: uL | Run Reagent |
|-------------------|---------------------|-----------|-------------|

Report Date: 14-Feb-2023 19:53:53

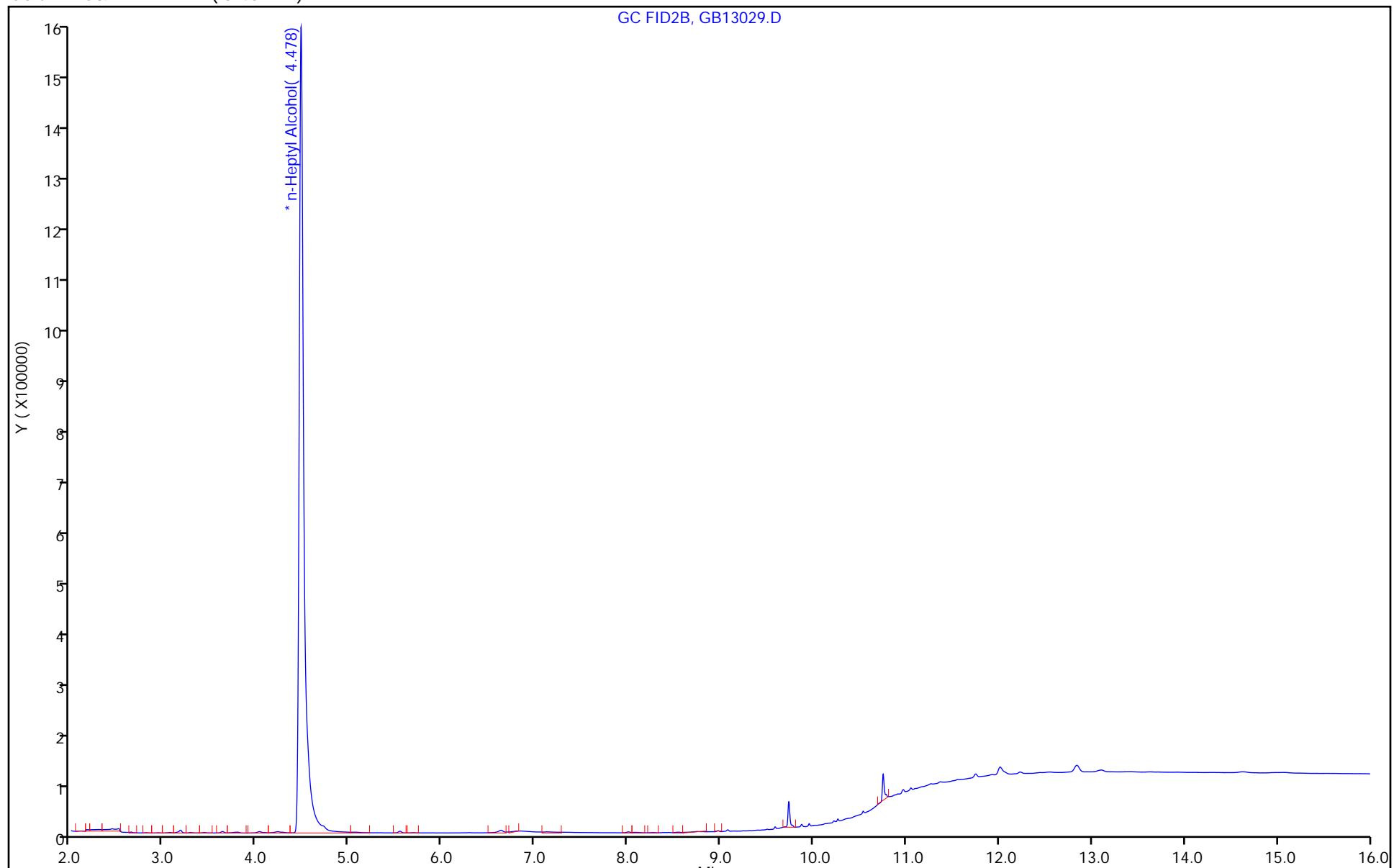
Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13029.D
Injection Date: 14-Feb-2023 04:46:31 Instrument ID: CVGG2
Lims ID: 580-123350-A-3 Lab Sample ID: 680-123350-3
Client ID: AF-RHMW10-WGFD01LF-2302W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 29

ALS Bottle#: 0



FORM VI
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

Analy Batch No.: 761417

SDG No.: _____

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2023 16:10 Calibration End Date: 01/31/2023 18:30 Calibration ID: 89543

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-761417/8 | GA31015.D |
| Level 2 | IC 680-761417/7 | GA31014.D |
| Level 3 | IC 680-761417/6 | GA31013.D |
| Level 4 | ICIS 680-761417/5 | GA31012.D |
| Level 5 | IC 680-761417/4 | GA31011.D |
| Level 6 | IC 680-761417/3 | GA31010.D |
| Level 7 | IC 680-761417/2 | GA31009.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD /RSE | # | MAX %RSD /RSE | R^2 OR COD | # | MIN R^2 OR COD |
|---------------------------------|-----------------|------------------|--------|--------|--------|------------|-------------|------------|-----------|---|---------|-----------|---|---------------|------------|--------|----------------|
| | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethanol, 2-propoxy | 1.4382 +++++ | 0.9582 0.5582 | 0.9173 | 0.7700 | 0.6300 | Qua | 1.970 3 | 0.665 0 | -0.001274 | | | | | 0.9990 | | 0.9900 | |
| 4-Hydroxy-4-methyl-2-pentanone | 1.4283 +++++ | 0.8880 0.5383 | 0.8535 | 0.7424 | 0.5919 | Qua | 1.983 3 | 0.614 0 | -0.000967 | | | | | 0.9990 | | 0.9900 | |
| 2-Butoxyethanol | 1.5807 +++++ | 1.0832 0.6151 | 1.0099 | 0.8770 | 0.6937 | Qua | 2.267 1 | 0.737 4 | -0.001464 | | | | | 0.9990 | | 0.9900 | |
| Dipropylene Glycol Methyl Ether | 0.1078 +++++ | 0.0692 0.0432 | 0.0616 | 0.0535 | 0.0452 | Lin2 | 0.127 1 | 0.044 8 | | | | | | 0.9950 | | 0.9900 | |
| Propylene glycol | 0.4019 +++++ | 0.3191 0.1712 | 0.2047 | 0.1598 | 0.1777 | Qua | 0.491 4 | 0.158 2 | 0.0000862 | | | | | 0.9980 | | 0.9900 | |
| Ethylene glycol | 1.1726 +++++ | 0.8064 0.3726 | 0.4948 | 0.3998 | 0.4021 | Qua | 1.578 5 | 0.363 4 | -0.000056 | | | | | 0.9980 | | 0.9900 | |
| 2-(2-Butoxyethoxy)ethanol | 1.2656 +++++ | 0.7973 0.4776 | 0.6815 | 0.6023 | 0.4981 | Lin2 | 1.559 9 | 0.491 6 | | | | | | 0.9950 | | 0.9900 | |
| 2,2'-Oxybisethanol | 0.5099 +++++ | 0.4520 0.2438 | 0.2629 | 0.2248 | 0.2586 | Qua | 0.483 6 | 0.239 3 | 0.0000057 | | | | | 0.9970 | | 0.9900 | |
| Triethylene Glycol | 0.4321 +++++ | 0.4323 0.2392 | 0.2469 | 0.2299 | 0.2511 | Qua | 0.407 0 | 0.236 5 | -0.000007 | | | | | 0.9980 | | 0.9900 | |
| Tetraethylene Glycol | 0.4762 +++++ | 0.4518 0.2488 | 0.2619 | 0.2396 | 0.2616 | Qua | 0.924 0 | 0.245 3 | -0.000002 | | | | | 0.9980 | | 0.9900 | |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

Analy Batch No.: 761417

SDG No.: _____

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2023 16:10 Calibration End Date: 01/31/2023 18:30 Calibration ID: 89543

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-761417/8 | GA31015.D |
| Level 2 | IC 680-761417/7 | GA31014.D |
| Level 3 | IC 680-761417/6 | GA31013.D |
| Level 4 | ICIS 680-761417/5 | GA31012.D |
| Level 5 | IC 680-761417/4 | GA31011.D |
| Level 6 | IC 680-761417/3 | GA31010.D |
| Level 7 | IC 680-761417/2 | GA31009.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---------------------------------|--------|------------|-----------------|-------------------|--------|---------|---------|-----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Ethanol, 2-propoxy | nHPA | Qua | 217199 +++++ | 395229 4966455 | 747201 | 1481144 | 2998970 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 4-Hydroxy-4-methyl-2-pentanone | nHPA | Qua | 215694 +++++ | 366266 4789015 | 695234 | 1428079 | 2817730 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2-Butoxyethanol | nHPA | Qua | 238714 +++++ | 446752 5472021 | 822590 | 1687009 | 3302160 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Dipropylene Glycol Methyl Ether | nHPA | Lin2 | 16283 +++++ | 28539 384460 | 50136 | 102970 | 215230 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Propylene glycol | nHPA | Qua | 60701 +++++ | 131630 1523404 | 166728 | 307358 | 845966 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Ethylene glycol | nHPA | Qua | 177078 +++++ | 332582 3315102 | 403080 | 768953 | 1914058 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2-(2-Butoxyethoxy)ethanol | nHPA | Lin2 | 191136 +++++ | 328863 4248929 | 555129 | 1158542 | 2371277 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2,2'-Oxybisethanol | nHPA | Qua | 77003 +++++ | 186446 2169212 | 214186 | 432419 | 1231191 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Triethylene Glycol | nHPA | Qua | 65259 +++++ | 178287 2128032 | 201150 | 442202 | 1195495 | 2.00 +++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Tetraethylene Glycol | nHPA | Qua | 143818 +++++ | 372712 4427733 | 426730 | 921584 | 2490752 | 4.00 +++++ | 10.0 200 | 20.0 | 40.0 | 100 |

Curve Type Legend

Lin2 = Linear 1/conc^2 ISTD

Qua = Quadratic ISTD

FORM VI
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Savannah Job No.: 580-123350-1 Analy Batch No.: 761417

SDG No.: _____

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2023 16:10 Calibration End Date: 01/31/2023 18:30 Calibration ID: 89543

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-761417/8 | GA31015.D |
| Level 2 | IC 680-761417/7 | GA31014.D |
| Level 3 | IC 680-761417/6 | GA31013.D |
| Level 4 | ICIS 680-761417/5 | GA31012.D |
| Level 5 | IC 680-761417/4 | GA31011.D |
| Level 6 | IC 680-761417/3 | GA31010.D |
| Level 7 | IC 680-761417/2 | GA31009.D |

| ANALYTE | PERCENT ERROR | | | | | | PERCENT ERROR LIMIT | | | | | |
|---------------------------------|---------------|---------|---------|---------|---------|---------|---------------------|-------|-------|-------|-------|-------|
| | LVL 1 # | LVL 2 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| | LVL 7 # | | | | | | LVL 7 | | | | | |
| Dipropylene Glycol Methyl Ether | -1.1 | -2.2 | 9.1 | 5.4 | -4.7 | +++++ | 20 | 20 | 20 | 20 | 20 | |
| | -6.3 | | | | | | 20 | | | | | |
| 2-(2-Butoxyethoxy)ethanol | -1.2 | -1.3 | 6.9 | 6.6 | -5.0 | +++++ | 20 | 20 | 20 | 20 | 20 | |
| | -6.0 | | | | | | 20 | | | | | |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31009.D
 Lims ID: ic g7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 31-Jan-2023 16:10:20 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-002
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:18:17 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

First Level Reviewer: SWK1 Date: 01-Feb-2023 12:15:54

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|-------|-------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.106 | 3.115 | -0.009 | 4966455 | 100.0 | 100.2 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.692 | 3.705 | -0.013 | 4789015 | 100.0 | 100.3 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.017 | 4.020 | -0.003 | 5472021 | 100.0 | 100.3 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.501 | 4.493 | 0.008 | 4448338 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.443 | 5.450 | -0.007 | 384460 | 100.0 | 93.7 | |
| 6 Propylene glycol | | | | | M | |
| 6.605 | 6.602 | 0.003 | 1523404 | 100.0 | 99.7 | M |
| 7 Ethylene glycol | | | | | | |
| 6.844 | 6.859 | -0.015 | 3315102 | 100.0 | 99.7 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.749 | 8.749 | 0.000 | 4248929 | 100.0 | 94.0 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.737 | 9.735 | 0.002 | 2169212 | 100.0 | 99.6 | |
| 10 Triethylene Glycol | | | | | | |
| 10.752 | 10.751 | 0.001 | 2128032 | 100.0 | 99.7 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.012 | 12.009 | 0.003 | 4427733 | 200.0 | 199.5 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 50.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

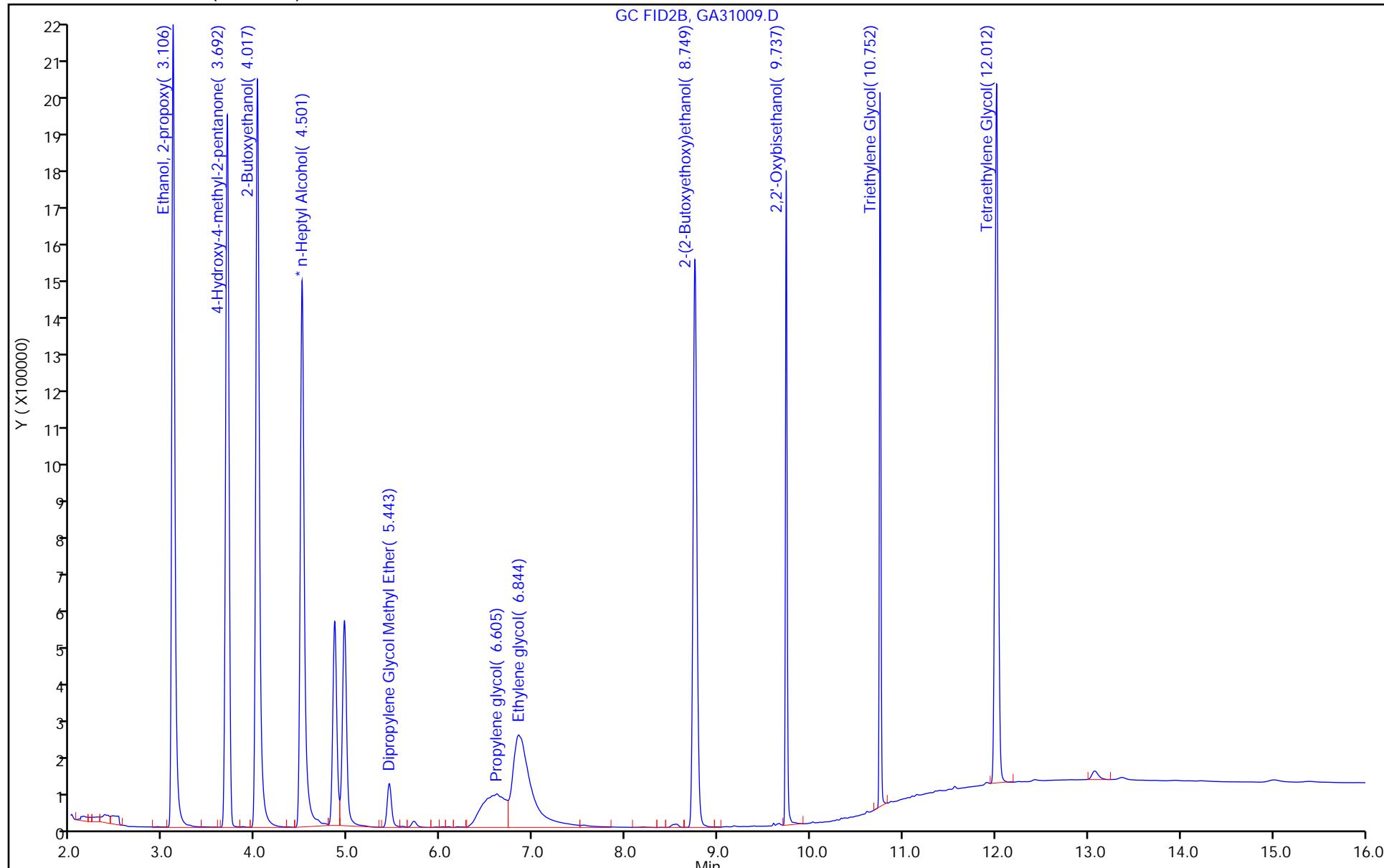
Run Reagent

Report Date: 01-Feb-2023 12:18:17

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31009.D
Injection Date: 31-Jan-2023 16:10:20 Instrument ID: CVGG2
Lims ID: ic g7 Operator ID:
Client ID:
Injection Vol: 1.0 ul Worklist Smp#: 2
Method: 8015_GLY_VGG Dil. Factor: 1.0000
Column: J&W DB WAX (0.45 mm) Limit Group: 8015C_DAI



Eurofins Savannah

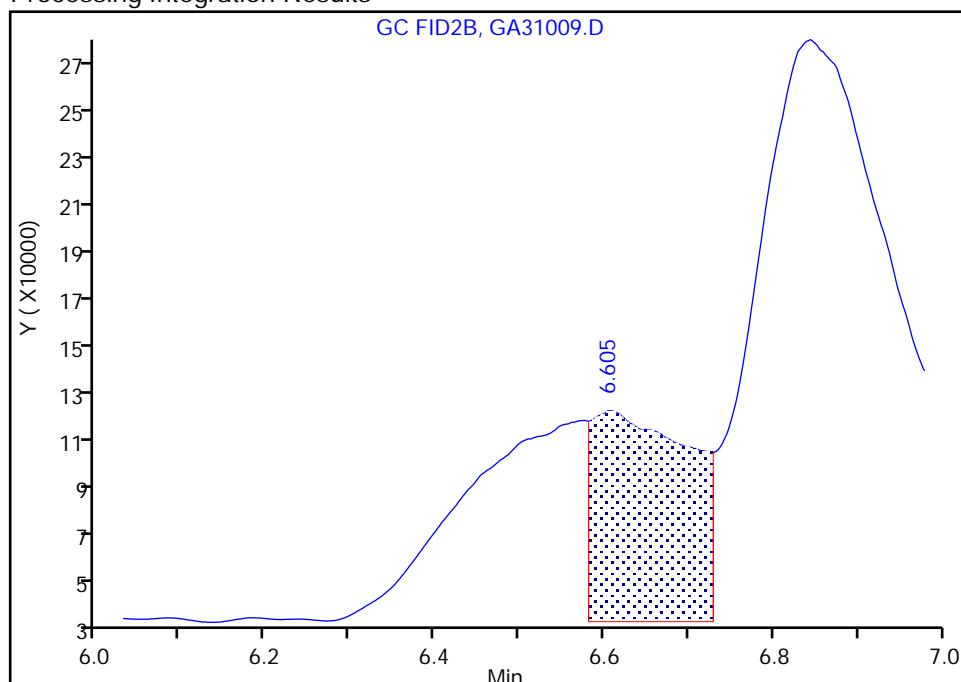
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31009.D
 Injection Date: 31-Jan-2023 16:10:20 Instrument ID: CVGG2
 Lims ID: ic g7
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

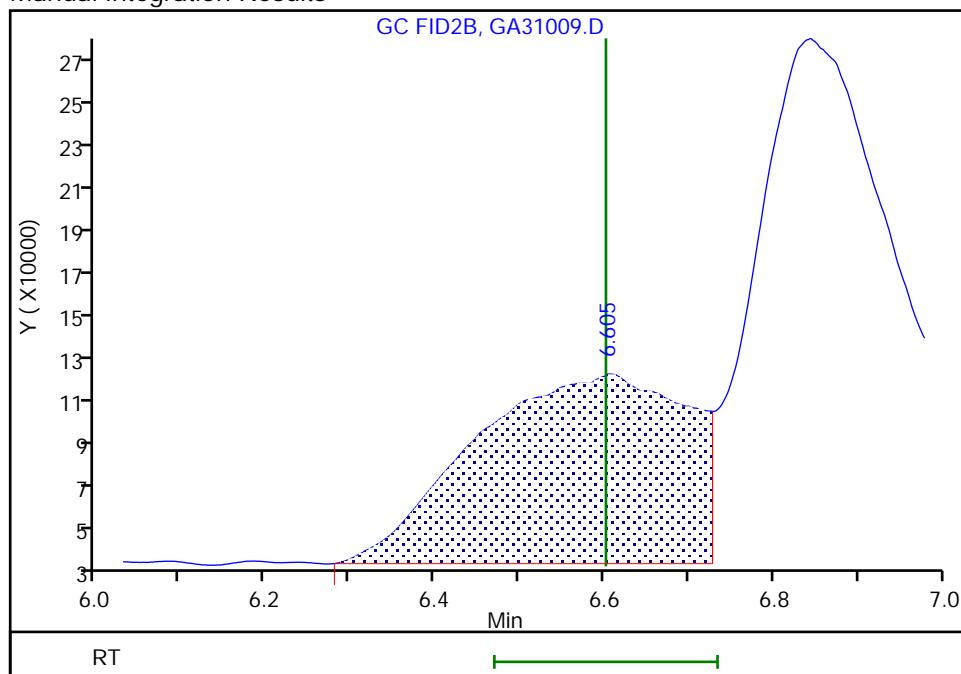
RT: 6.60
 Area: 692727
 Amount: 63.697631
 Amount Units: ug/ml

Processing Integration Results



RT: 6.60
 Area: 1523404
 Amount: 99.725682
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:15:47

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31010.D
 Lims ID: ic g6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 31-Jan-2023 16:33:44 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-003
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:18:18 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|-------|-------|--|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.109 | 3.115 | -0.006 | 2696316 | 80.0 | 51.0 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.698 | 3.705 | -0.007 | 2533759 | 80.0 | 50.6 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.018 | 4.020 | -0.002 | 3009271 | 80.0 | 51.4 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.497 | 4.493 | 0.004 | 4142709 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.447 | 5.450 | -0.003 | 198795 | 80.0 | 50.7 | |
| 6 Propylene glycol | | | | | | |
| 6.598 | 6.602 | -0.004 | 867996 | 80.0 | 61.1 | |
| 7 Ethylene glycol | | | | | | |
| 6.865 | 6.859 | 0.006 | 1916855 | 80.0 | 59.9 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.749 | 8.749 | 0.000 | 2209469 | 80.0 | 51.1 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.737 | 9.735 | 0.002 | 1262199 | 80.0 | 61.6 | |
| 10 Triethylene Glycol | | | | | | |
| 10.752 | 10.751 | 0.001 | 1203391 | 80.0 | 59.8 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.011 | 12.009 | 0.002 | 2479986 | 160.0 | 118.4 | |

Reagents:

| | | | |
|-------------------|---------------------|-----------|-------------|
| SG_Gly_CAL_00052 | Amount Added: 40.00 | Units: uL | |
| SG,GLY,ISTD_00105 | Amount Added: 10.00 | Units: uL | Run Reagent |

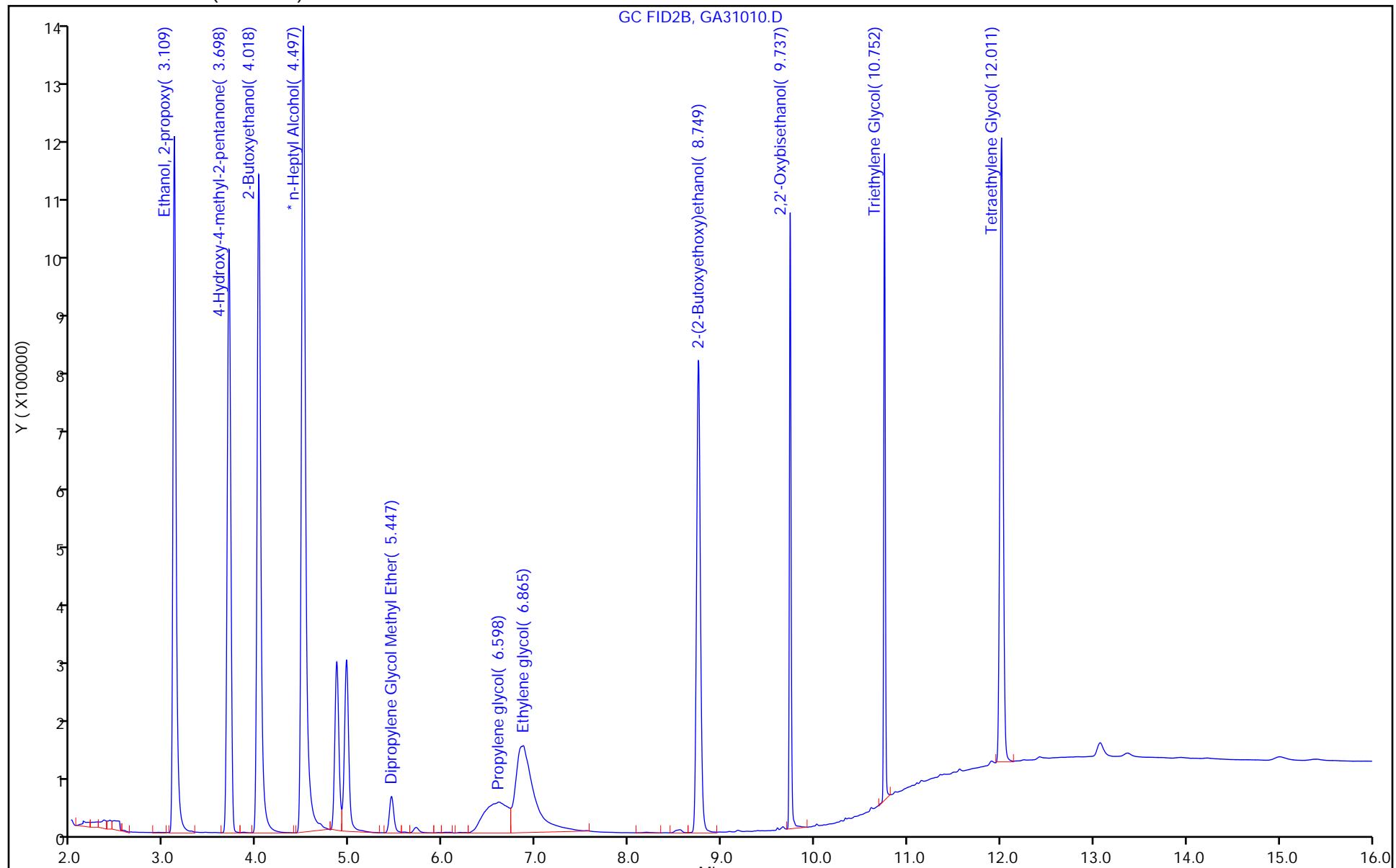
Report Date: 01-Feb-2023 12:18:18

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31010.D
Injection Date: 31-Jan-2023 16:33:44 Instrument ID: CVGG2
Lims ID: ic g6 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 3



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31011.D
 Lims ID: ic g5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 31-Jan-2023 16:57:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-004
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:18:18 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|-------|-------|--|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.111 | 3.115 | -0.004 | 2998970 | 50.0 | 49.0 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.700 | 3.705 | -0.005 | 2817730 | 50.0 | 48.7 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.019 | 4.020 | -0.001 | 3302160 | 50.0 | 48.7 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.496 | 4.493 | 0.003 | 4760307 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.448 | 5.450 | -0.002 | 215230 | 50.0 | 47.6 | |
| 6 Propylene glycol | | | | | | |
| 6.604 | 6.602 | 0.002 | 845966 | 50.0 | 51.6 | |
| 7 Ethylene glycol | | | | | | |
| 6.848 | 6.859 | -0.011 | 1914058 | 50.0 | 51.4 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.748 | 8.749 | -0.001 | 2371277 | 50.0 | 47.5 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.737 | 9.735 | 0.002 | 1231191 | 50.0 | 52.0 | |
| 10 Triethylene Glycol | | | | | | |
| 10.752 | 10.751 | 0.001 | 1195495 | 50.0 | 51.5 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.011 | 12.009 | 0.002 | 2490752 | 100.0 | 103.0 | |

Reagents:

| | | | |
|-------------------|---------------------|-----------|-------------|
| SG_Gly_CAL_00052 | Amount Added: 25.00 | Units: uL | |
| SG,GLY,ISTD_00105 | Amount Added: 10.00 | Units: uL | Run Reagent |

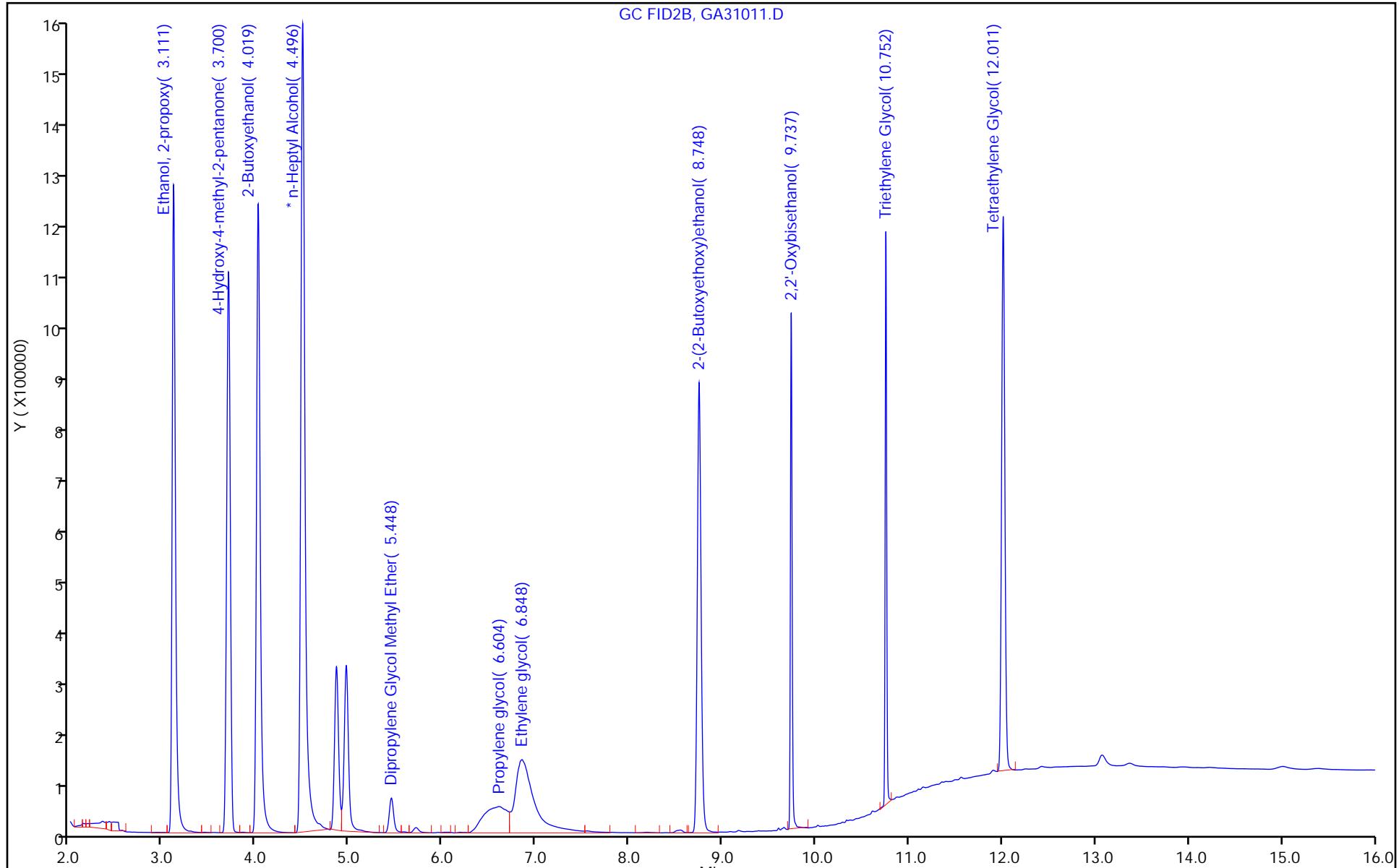
Report Date: 01-Feb-2023 12:18:19

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31011.D
Injection Date: 31-Jan-2023 16:57:00 Instrument ID: CVGG2
Lims ID: ic g5 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 4



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31012.D
 Lims ID: icis g4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 31-Jan-2023 17:20:19 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:18:19 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

First Level Reviewer: SWK1 Date: 01-Feb-2023 12:16:13

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.115 | 3.115 | 0.000 | 1481144 | 20.0 | 21.0 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.705 | 3.705 | 0.000 | 1428079 | 20.0 | 21.7 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.020 | 4.020 | 0.000 | 1687009 | 20.0 | 21.6 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.493 | 4.493 | 0.000 | 4808813 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.450 | 5.450 | 0.000 | 102970 | 20.0 | 21.1 | |
| 6 Propylene glycol | | | | | M | |
| 6.602 | 6.602 | 0.000 | 307358 | 20.0 | 16.9 | M |
| 7 Ethylene glycol | | | | | | |
| 6.859 | 6.859 | 0.000 | 768953 | 20.0 | 17.7 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.749 | 8.749 | 0.000 | 1158542 | 20.0 | 21.3 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.735 | 9.735 | 0.000 | 432419 | 20.0 | 16.8 | |
| 10 Triethylene Glycol | | | | | | |
| 10.751 | 10.751 | 0.000 | 442202 | 20.0 | 17.7 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.009 | 12.009 | 0.000 | 921584 | 40.0 | 35.3 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

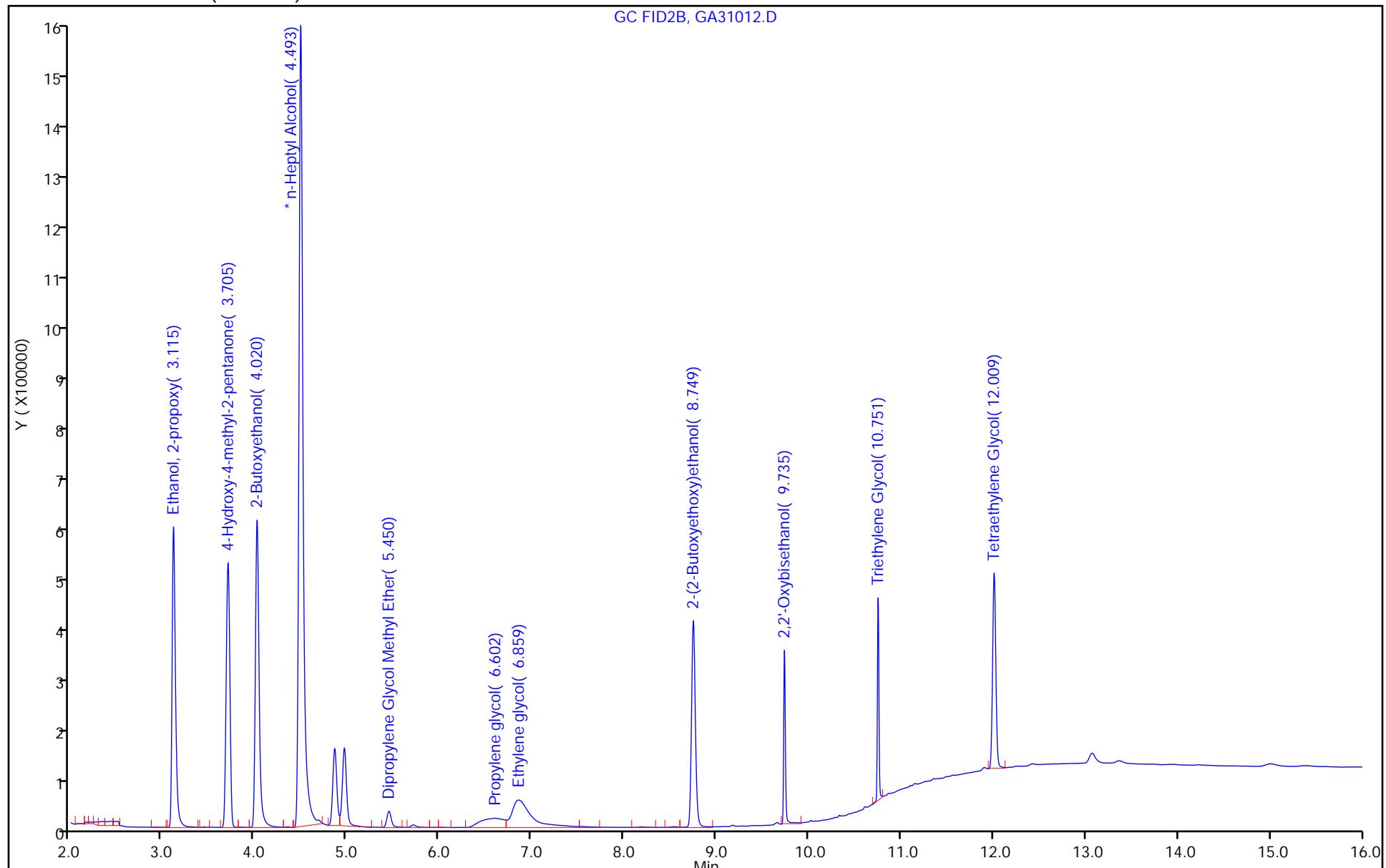
Report Date: 01-Feb-2023 12:18:19

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31012.D
Injection Date: 31-Jan-2023 17:20:19 Instrument ID: CVGG2
Lims ID: icis g4 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 5



Eurofins Savannah

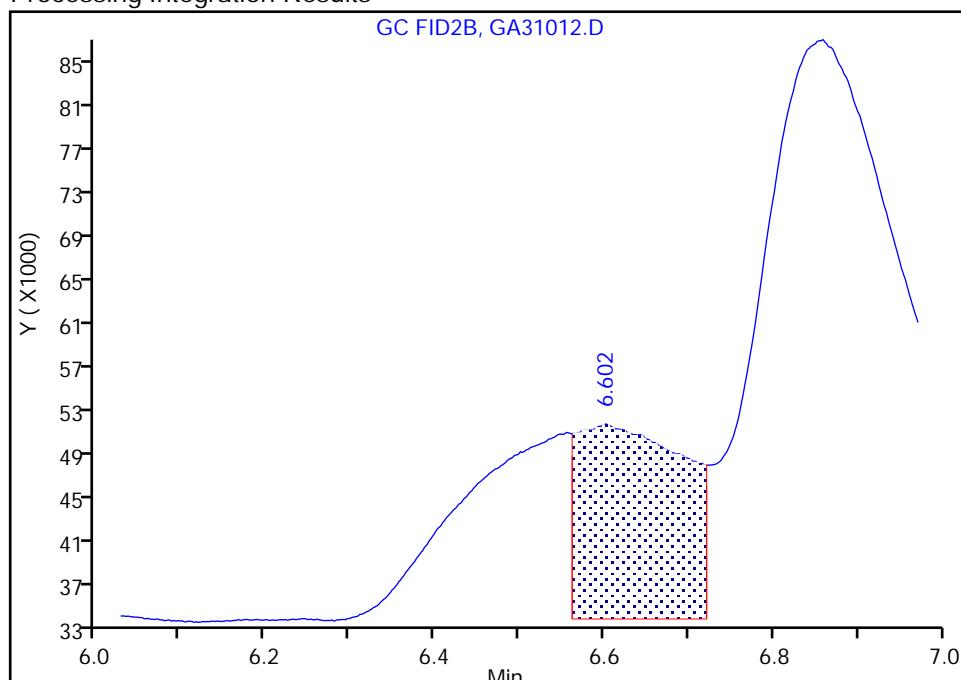
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31012.D
 Injection Date: 31-Jan-2023 17:20:19 Instrument ID: CVGG2
 Lims ID: icis g4
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

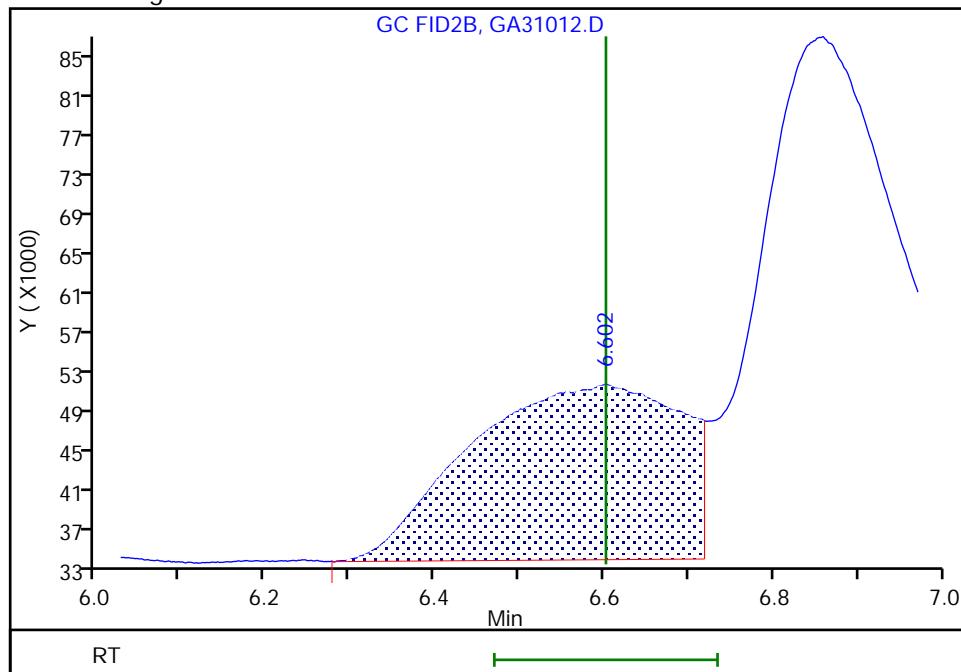
RT: 6.60
 Area: 155832
 Amount: 11.950885
 Amount Units: ug/ml

Processing Integration Results



RT: 6.60
 Area: 307358
 Amount: 16.940506
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:16:10

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31013.D
 Lims ID: ic g3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 31-Jan-2023 17:43:43 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-006
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:18:20 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

First Level Reviewer: SWK1 Date: 01-Feb-2023 12:16:32

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.112 | 3.115 | -0.003 | 747201 | 10.0 | 11.1 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.703 | 3.705 | -0.002 | 695234 | 10.0 | 10.9 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.018 | 4.020 | -0.002 | 822590 | 10.0 | 10.9 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.492 | 4.493 | -0.001 | 4072778 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.448 | 5.450 | -0.002 | 50136 | 10.0 | 10.9 | |
| 6 Propylene glycol | | | | | M | |
| 6.595 | 6.602 | -0.007 | 166728 | 10.0 | 9.78 | M |
| 7 Ethylene glycol | | | | | M | |
| 6.852 | 6.859 | -0.007 | 403080 | 10.0 | 9.29 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.749 | 8.749 | 0.000 | 555129 | 10.0 | 10.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.736 | 9.735 | 0.001 | 214186 | 10.0 | 8.97 | |
| 10 Triethylene Glycol | | | | | | |
| 10.751 | 10.751 | 0.000 | 201150 | 10.0 | 8.72 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.010 | 12.009 | 0.001 | 426730 | 20.0 | 17.6 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 5.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

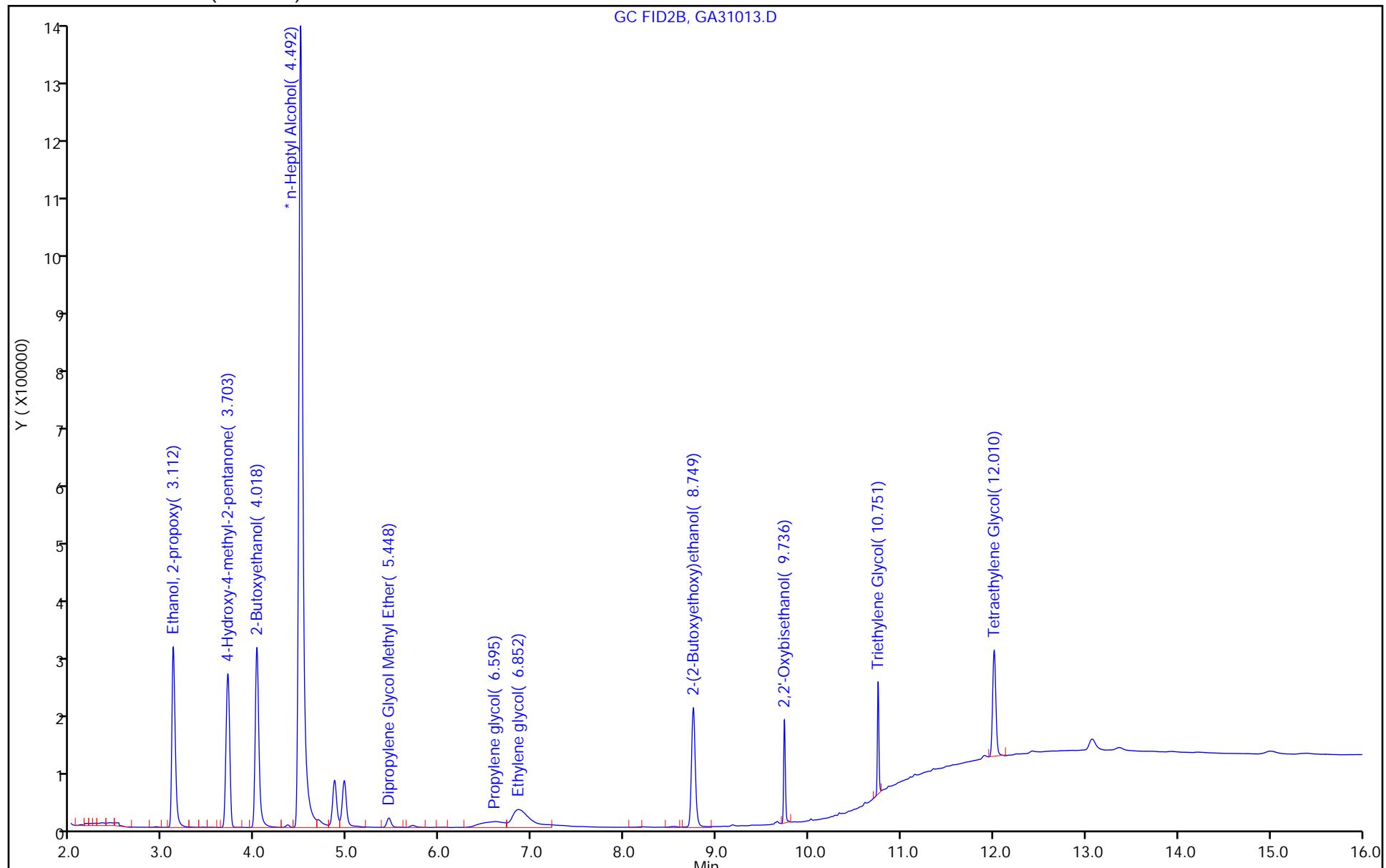
Report Date: 01-Feb-2023 12:18:20

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31013.D
Injection Date: 31-Jan-2023 17:43:43 Instrument ID: CVGG2
Lims ID: ic g3 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 6



Eurofins Savannah

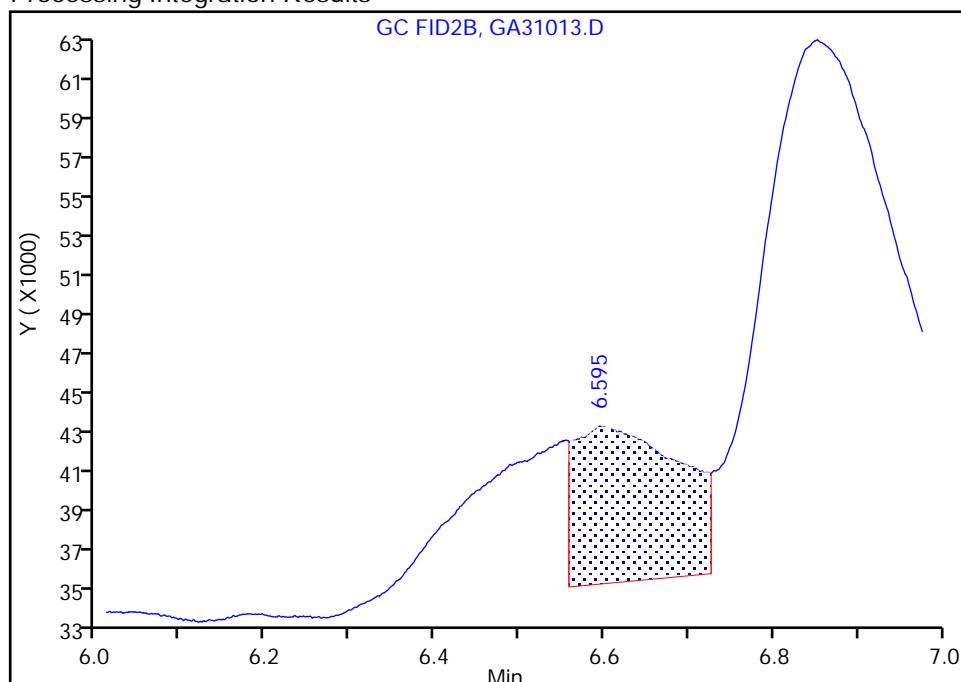
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31013.D
 Injection Date: 31-Jan-2023 17:43:43 Instrument ID: CVGG2
 Lims ID: ic g3
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

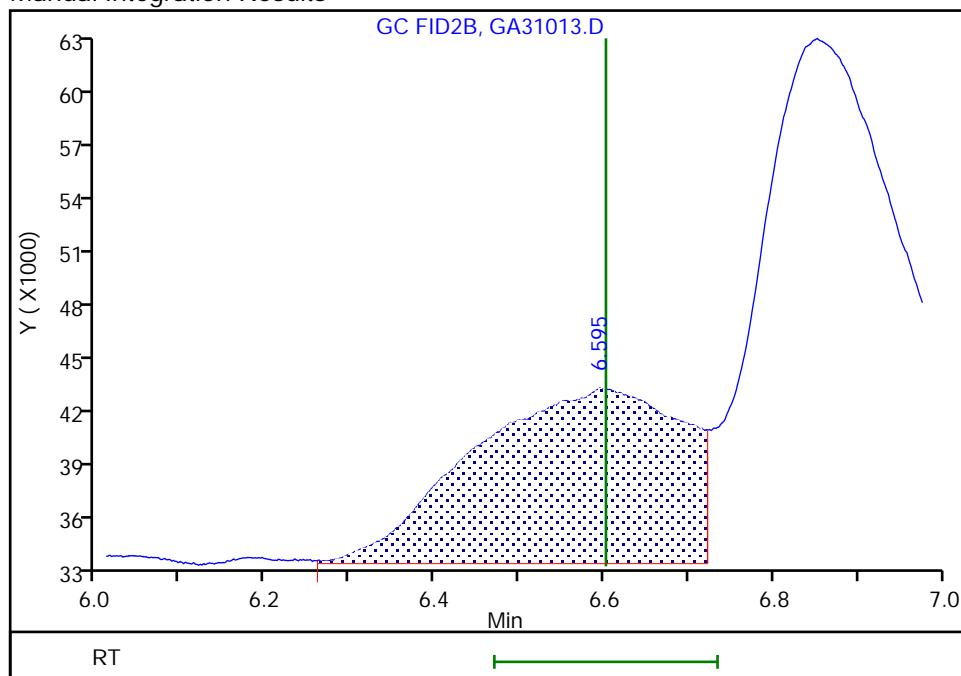
RT: 6.59
 Area: 67645
 Amount: 5.655825
 Amount Units: ug/ml

Processing Integration Results



RT: 6.59
 Area: 166728
 Amount: 9.781358
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:16:30

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

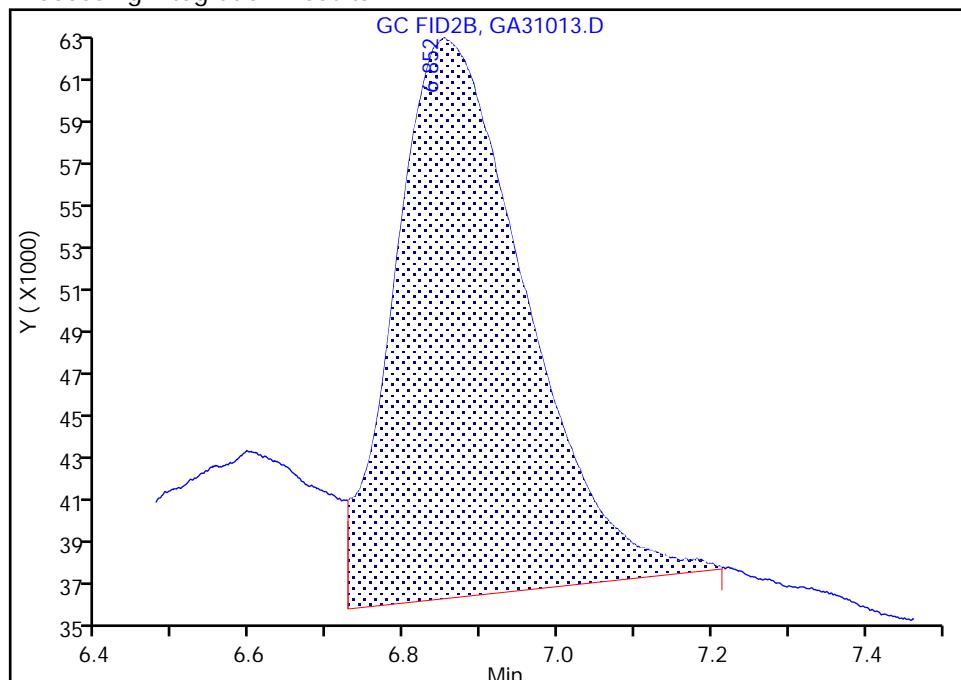
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31013.D
 Injection Date: 31-Jan-2023 17:43:43 Instrument ID: CVGG2
 Lims ID: ic g3
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

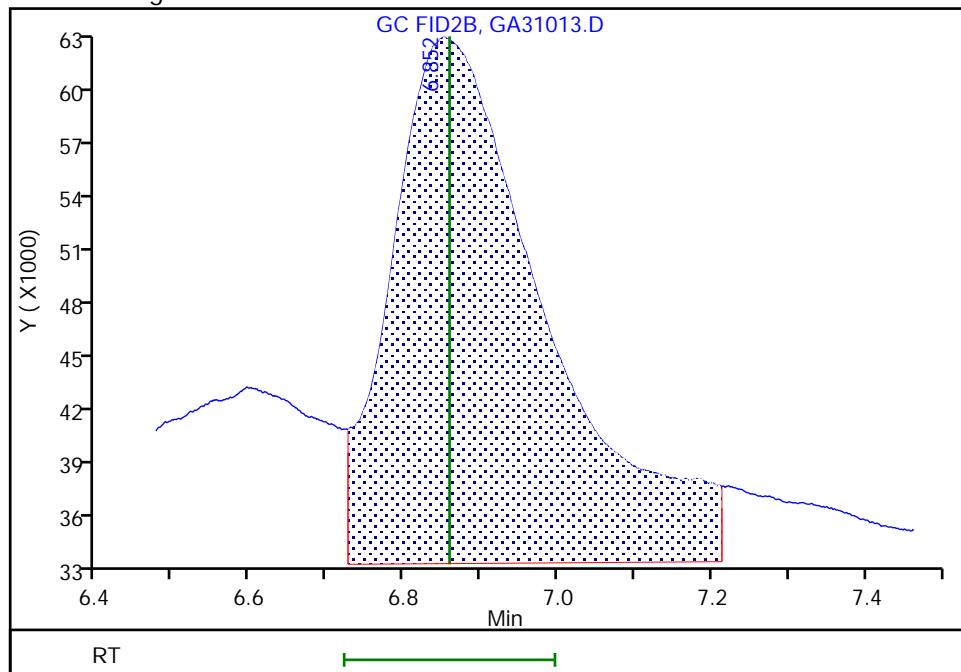
RT: 6.85
 Area: 308880
 Amount: 9.474281
 Amount Units: ug/ml

Processing Integration Results



RT: 6.85
 Area: 403080
 Amount: 9.287893
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:16:30

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31014.D
 Lims ID: ic g2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-Jan-2023 18:07:01 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-007
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:18:21 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

First Level Reviewer: SWK1 Date: 01-Feb-2023 12:16:54

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.108 | 3.115 | -0.007 | 395229 | 5.00 | 4.28 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.696 | 3.705 | -0.009 | 366266 | 5.00 | 4.03 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.016 | 4.020 | -0.004 | 446752 | 5.00 | 4.31 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.494 | 4.493 | 0.001 | 4124530 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.444 | 5.450 | -0.006 | 28539 | 5.00 | 4.89 | |
| 6 Propylene glycol | | | | | M | |
| 6.602 | 6.602 | 0.000 | 131630 | 5.00 | 6.95 | M |
| 7 Ethylene glycol | | | | | M | |
| 6.848 | 6.859 | -0.011 | 332582 | 5.00 | 6.76 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.749 | 8.749 | 0.000 | 328863 | 5.00 | 4.94 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.736 | 9.735 | 0.001 | 186446 | 5.00 | 7.42 | |
| 10 Triethylene Glycol | | | | | | |
| 10.752 | 10.751 | 0.001 | 178287 | 5.00 | 7.42 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.011 | 12.009 | 0.002 | 372712 | 10.0 | 14.7 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 2.50

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

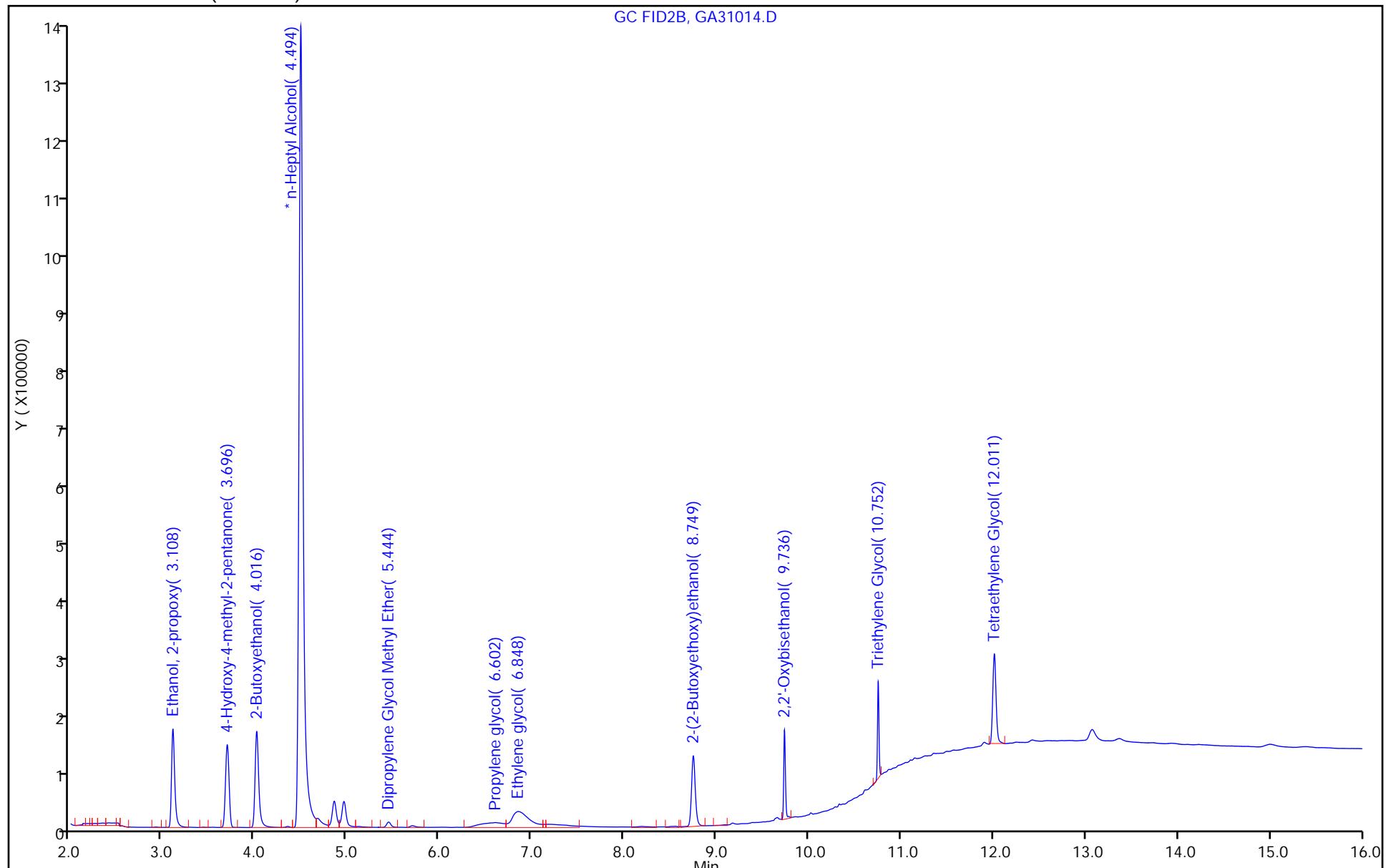
Report Date: 01-Feb-2023 12:18:21

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31014.D
Injection Date: 31-Jan-2023 18:07:01 Instrument ID: CVGG2
Lims ID: ic g2 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 7



Eurofins Savannah

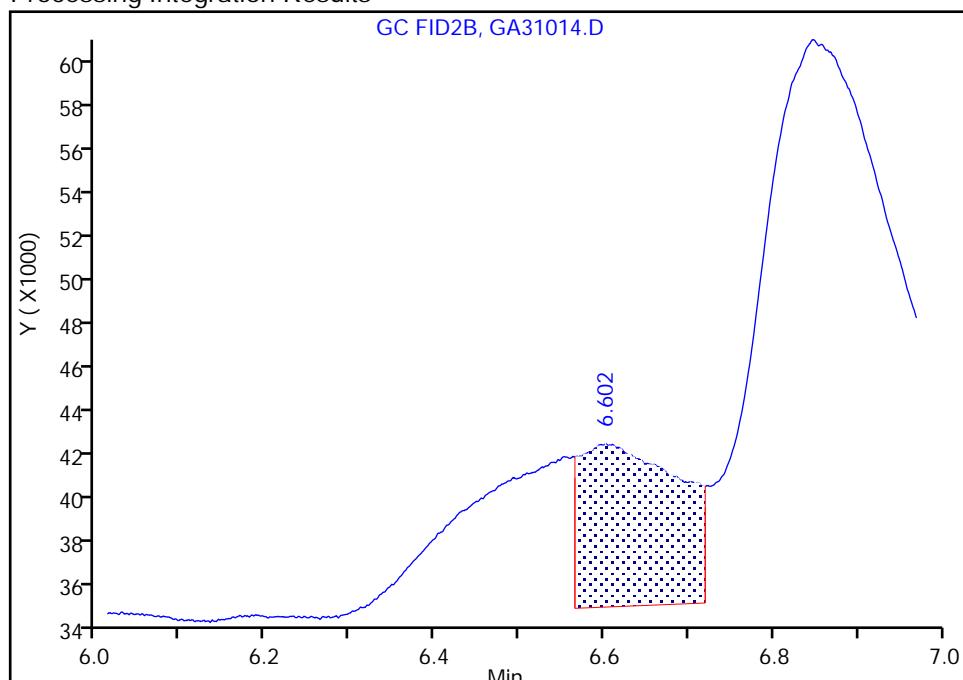
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31014.D
 Injection Date: 31-Jan-2023 18:07:01 Instrument ID: CVGG2
 Lims ID: ic g2
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

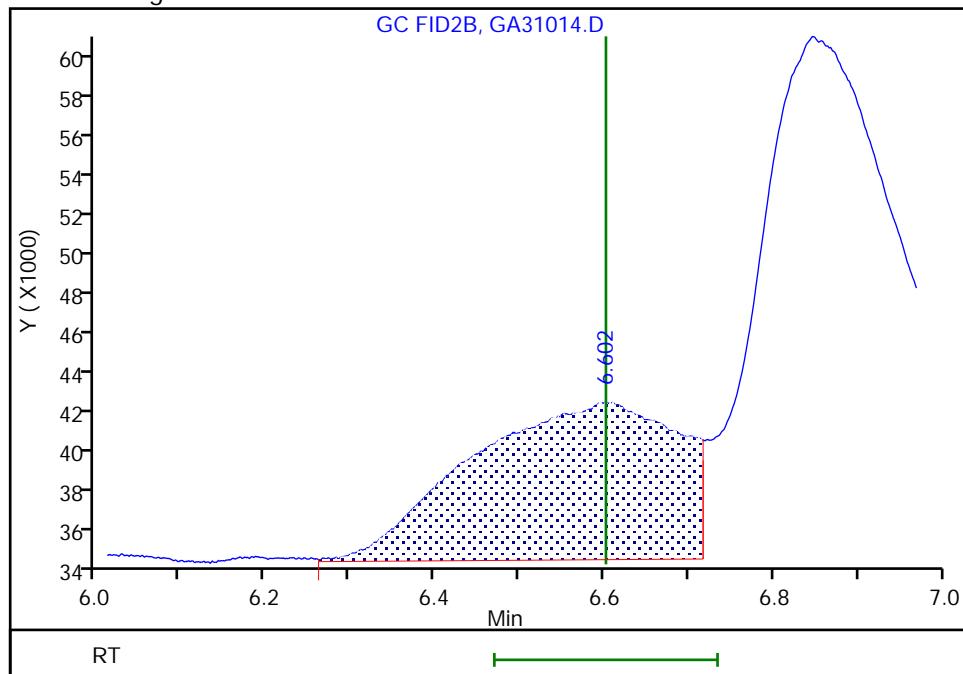
RT: 6.60
 Area: 59558
 Amount: 4.396829
 Amount Units: ug/ml

Processing Integration Results



RT: 6.60
 Area: 131630
 Amount: 6.954920
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:16:52

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

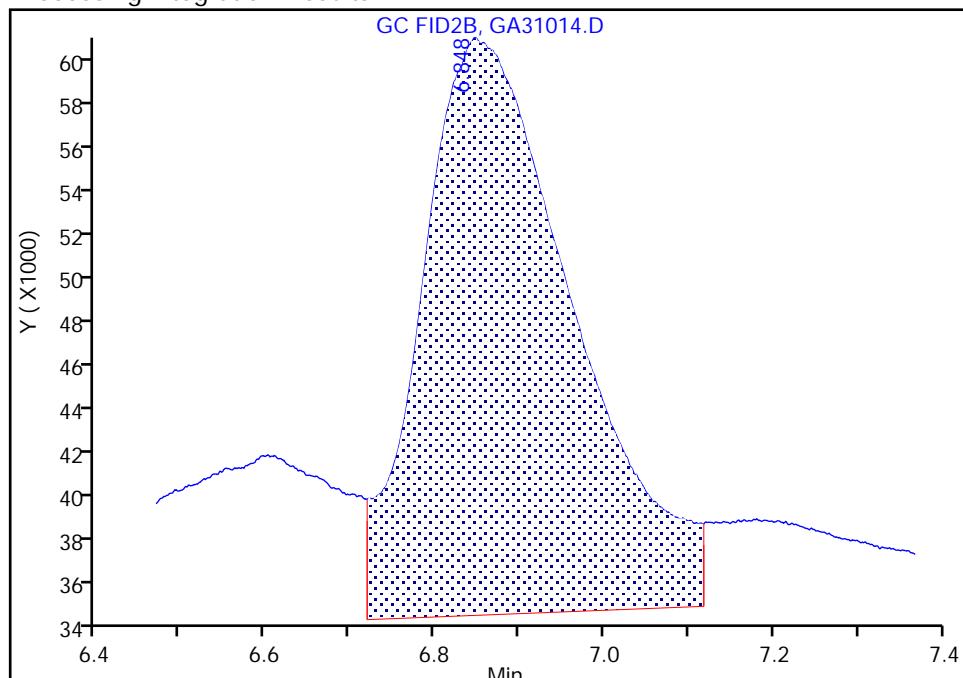
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31014.D
 Injection Date: 31-Jan-2023 18:07:01 Instrument ID: CVGG2
 Lims ID: ic g2
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

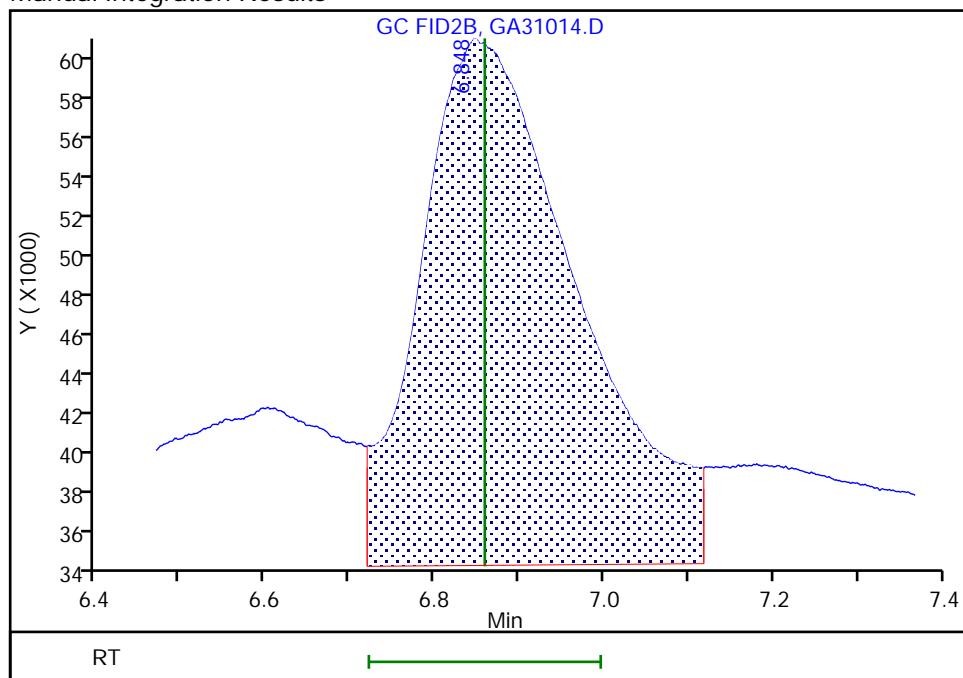
RT: 6.85
 Area: 313271
 Amount: 9.112271
 Amount Units: ug/ml

Processing Integration Results



RT: 6.85
 Area: 332582
 Amount: 6.758729
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:16:52

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Lims ID: ic g1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-Jan-2023 18:30:20 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-008
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:18:21 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

First Level Reviewer: SWK1 Date: 01-Feb-2023 12:17:18

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.118 | 3.115 | 0.003 | 217199 | 2.00 | 1.37 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.713 | 3.705 | 0.008 | 215694 | 2.00 | 1.43 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.021 | 4.020 | 0.001 | 238714 | 2.00 | 1.22 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.488 | 4.493 | -0.005 | 3775471 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.451 | 5.450 | 0.001 | 16283 | 2.00 | 1.98 | |
| 6 Propylene glycol | | | | | M | |
| 6.608 | 6.602 | 0.006 | 60701 | 2.00 | 1.97 | M |
| 7 Ethylene glycol | | | | | M | |
| 6.868 | 6.859 | 0.009 | 177078 | 2.00 | 2.11 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.748 | 8.749 | -0.001 | 191136 | 2.00 | 1.98 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.738 | 9.735 | 0.003 | 77003 | 2.00 | 2.24 | |
| 10 Triethylene Glycol | | | | | | |
| 10.753 | 10.751 | 0.002 | 65259 | 2.00 | 1.93 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.013 | 12.009 | 0.004 | 143818 | 4.00 | 4.00 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 1.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

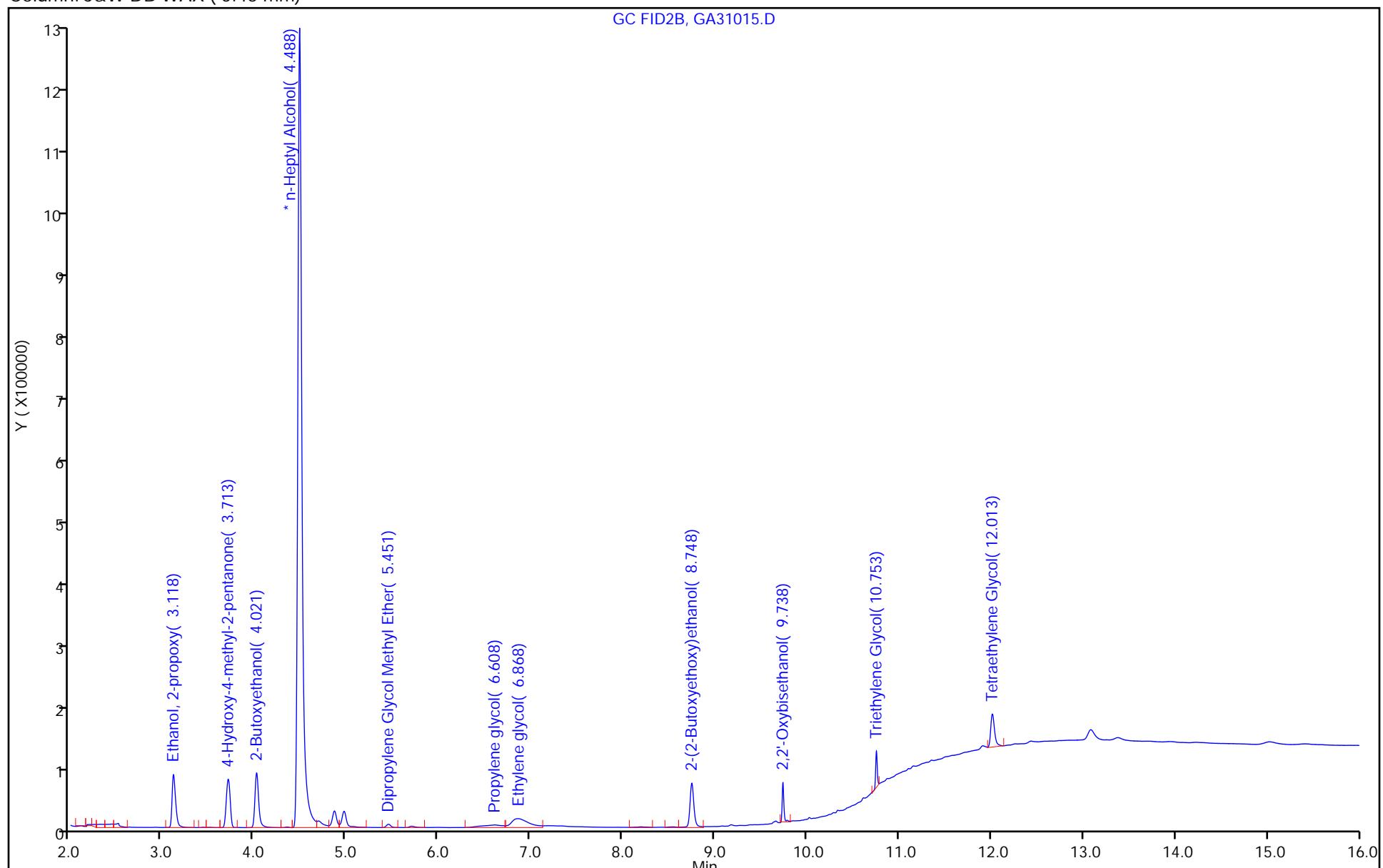
Report Date: 01-Feb-2023 12:18:22

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31015.D
Injection Date: 31-Jan-2023 18:30:20 Instrument ID: CVGG2
Lims ID: ic g1 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 8



Eurofins Savannah

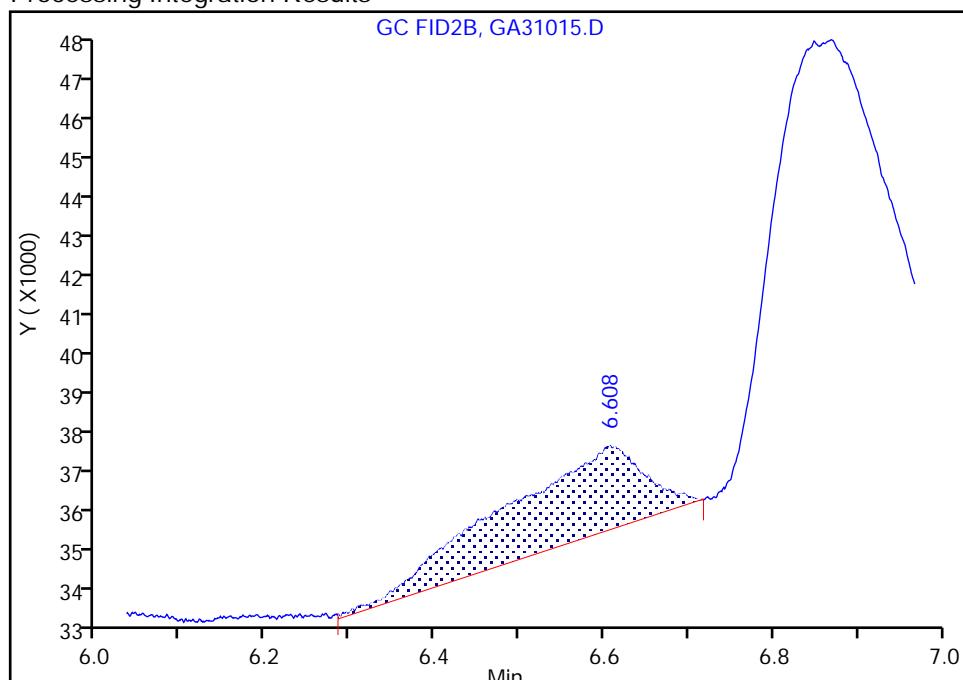
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Injection Date: 31-Jan-2023 18:30:20 Instrument ID: CVGG2
 Lims ID: ic g1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

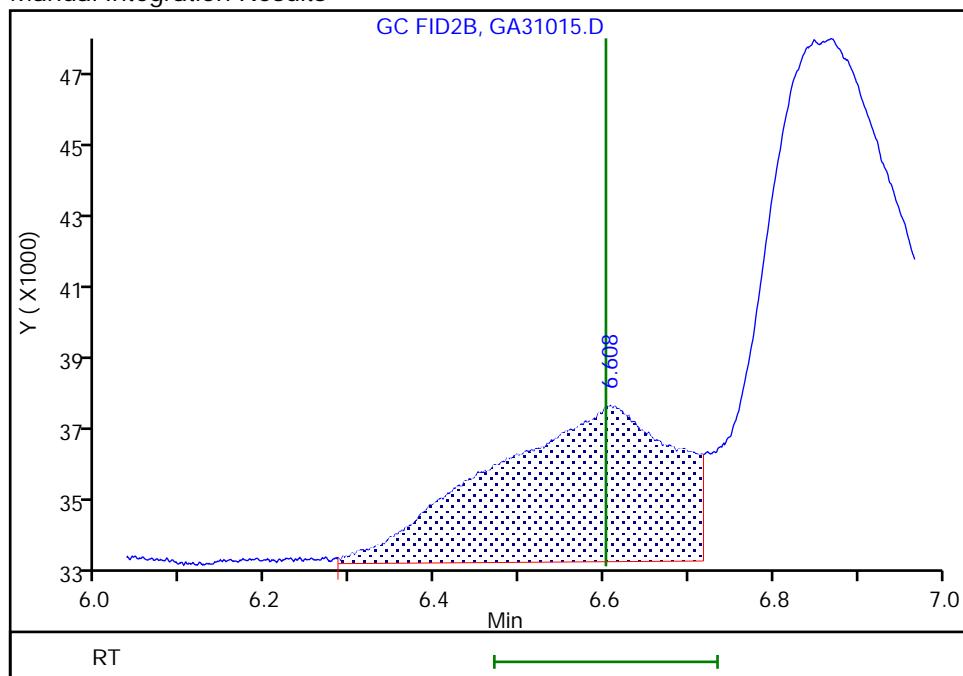
RT: 6.61
 Area: 24267
 Amount: 1.698866
 Amount Units: ug/ml

Processing Integration Results



RT: 6.61
 Area: 60701
 Amount: 1.973375
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:17:15

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

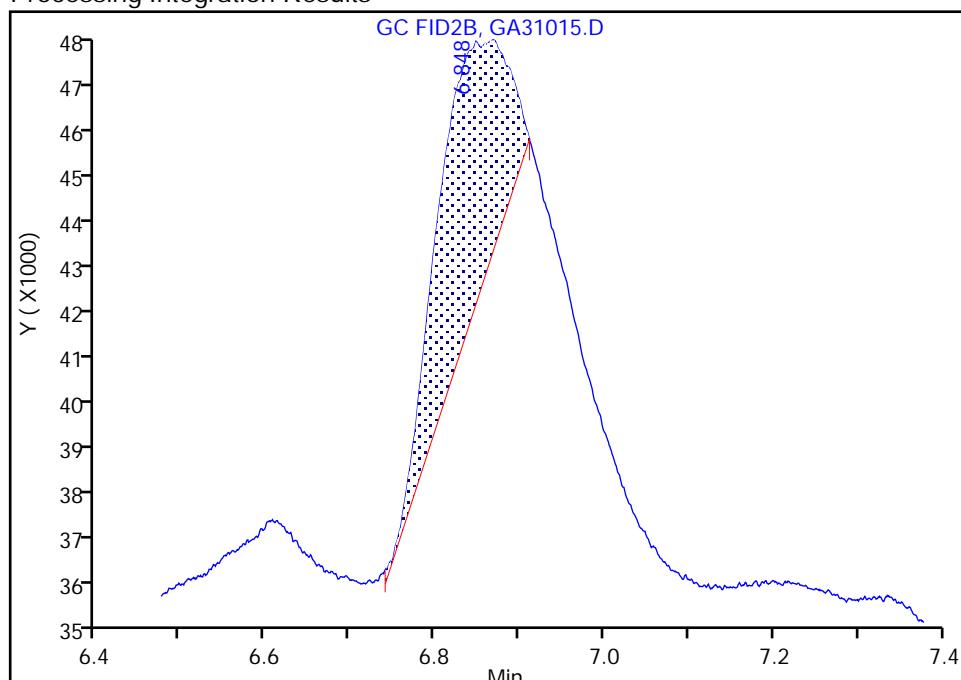
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Injection Date: 31-Jan-2023 18:30:20 Instrument ID: CVGG2
 Lims ID: ic g1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

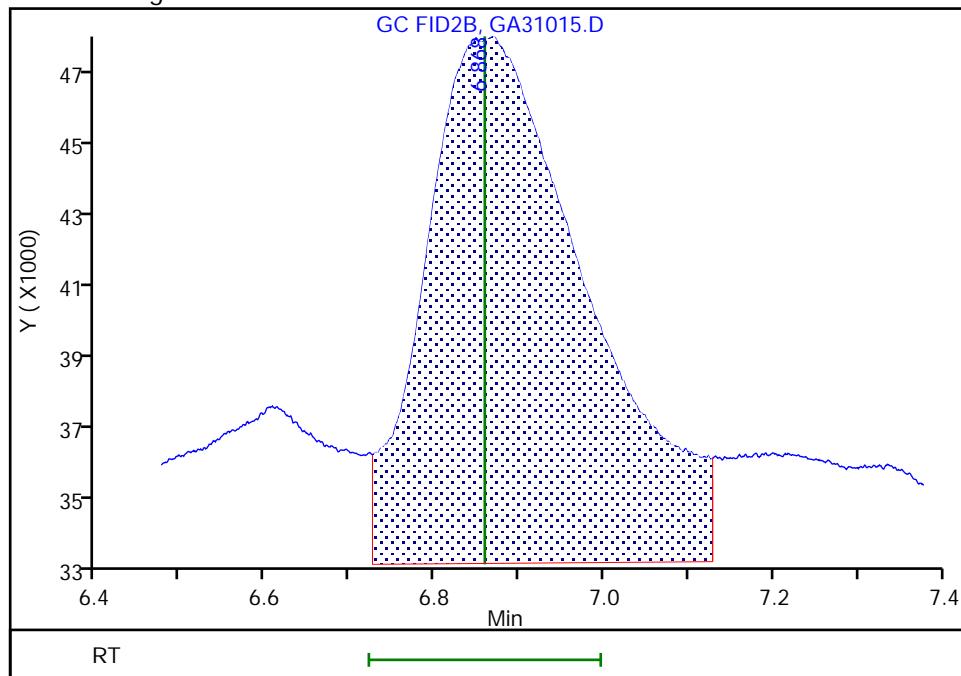
RT: 6.85
 Area: 30098
 Amount: 0.941310
 Amount Units: ug/ml

Processing Integration Results



RT: 6.87
 Area: 177078
 Amount: 2.110506
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 01-Feb-2023 12:17:15

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

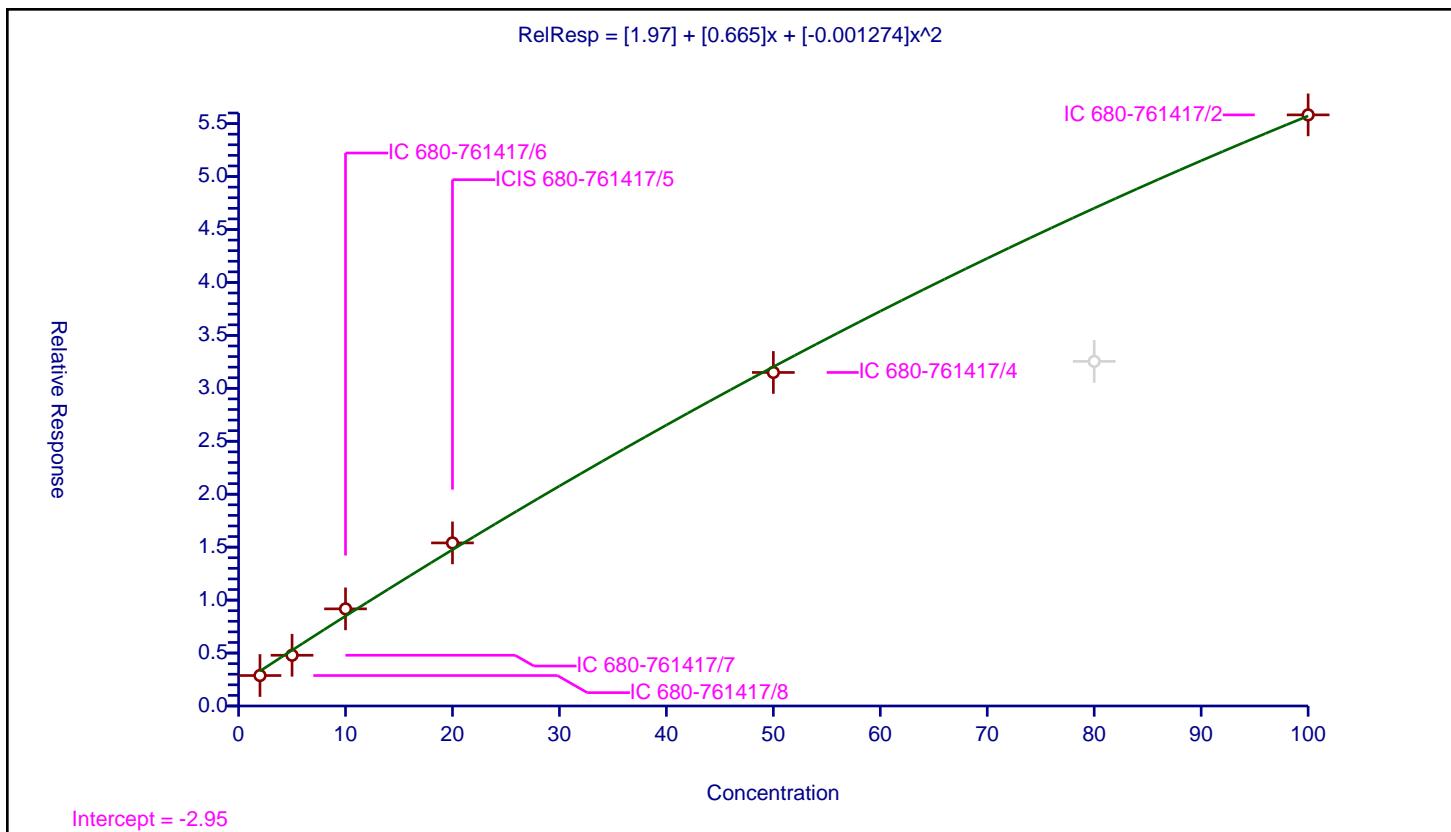
Calibration

/ Ethanol, 2-propoxy

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|---|-----------|
| Intercept: | 1.97 |
| Slope: | 0.665 |
| Second Order: | -0.001274 |
| Error Coefficients | |
| Standard Error: | 3490000 |
| Relative Standard Error: | 21.3 |
| Correlation Coefficient: | 0.997 |
| Coefficient of Determination (Adjusted): | 0.999 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 2.876449 | 50.0 | 3775471.0 | 1.438225 | Y |
| 2 | IC 680-761417/7 | 5.0 | 4.7912 | 50.0 | 4124530.0 | 0.95824 | Y |
| 3 | IC 680-761417/6 | 10.0 | 9.173112 | 50.0 | 4072778.0 | 0.917311 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 15.400308 | 50.0 | 4808813.0 | 0.770015 | Y |
| 5 | IC 680-761417/4 | 50.0 | 31.499754 | 50.0 | 4760307.0 | 0.629995 | Y |
| 6 | IC 680-761417/3 | 80.0 | 32.542909 | 50.0 | 4142709.0 | 0.406786 | N |
| 7 | IC 680-761417/2 | 100.0 | 55.823714 | 50.0 | 4448338.0 | 0.558237 | Y |



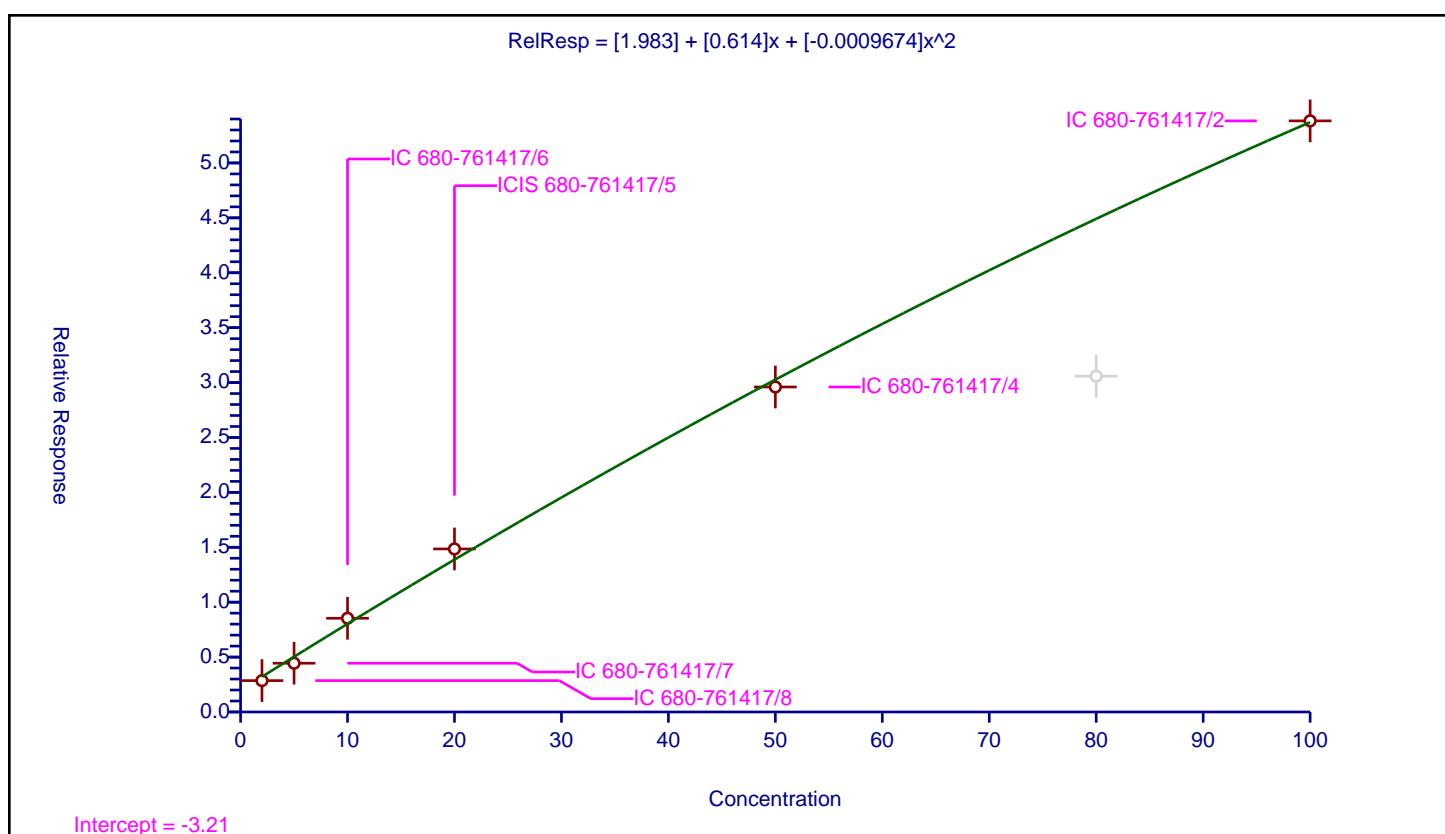
Calibration

/ 4-Hydroxy-4-methyl-2-pentanone

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|---|------------|
| Intercept: | 1.983 |
| Slope: | 0.614 |
| Second Order: | -0.0009674 |
| Error Coefficients | |
| Standard Error: | 3350000 |
| Relative Standard Error: | 21.3 |
| Correlation Coefficient: | 0.997 |
| Coefficient of Determination (Adjusted): | 0.999 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 2.856518 | 50.0 | 3775471.0 | 1.428259 | Y |
| 2 | IC 680-761417/7 | 5.0 | 4.440094 | 50.0 | 4124530.0 | 0.888019 | Y |
| 3 | IC 680-761417/6 | 10.0 | 8.535133 | 50.0 | 4072778.0 | 0.853513 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 14.84856 | 50.0 | 4808813.0 | 0.742428 | Y |
| 5 | IC 680-761417/4 | 50.0 | 29.596095 | 50.0 | 4760307.0 | 0.591922 | Y |
| 6 | IC 680-761417/3 | 80.0 | 30.580944 | 50.0 | 4142709.0 | 0.382262 | N |
| 7 | IC 680-761417/2 | 100.0 | 53.829262 | 50.0 | 4448338.0 | 0.538293 | Y |



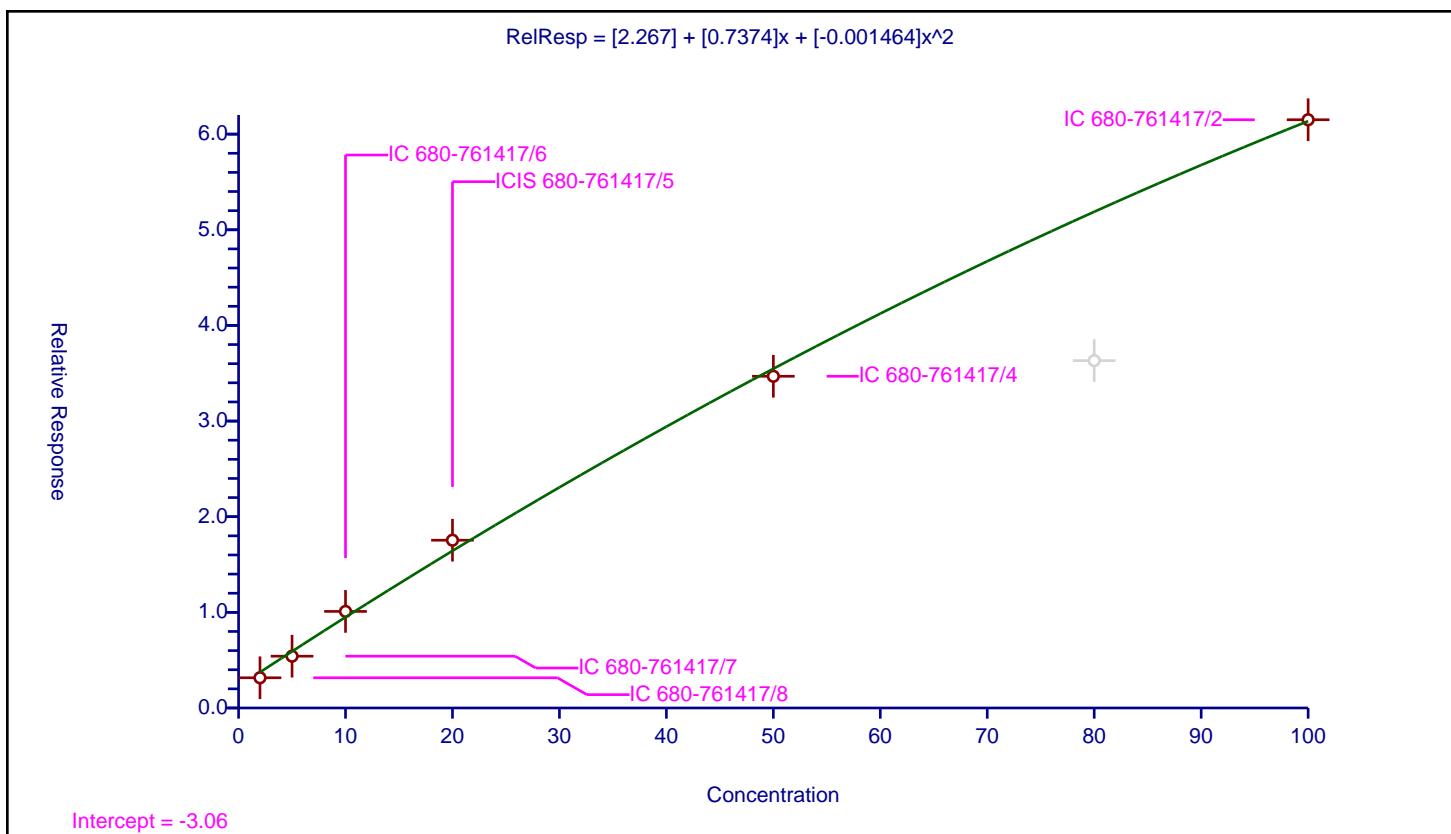
Calibration

/ 2-Butoxyethanol

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|---|-----------|
| Intercept: | 2.267 |
| Slope: | 0.7374 |
| Second Order: | -0.001464 |
| Error Coefficients | |
| Standard Error: | 3860000 |
| Relative Standard Error: | 25.0 |
| Correlation Coefficient: | 0.996 |
| Coefficient of Determination (Adjusted): | 0.999 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 3.16138 | 50.0 | 3775471.0 | 1.58069 | Y |
| 2 | IC 680-761417/7 | 5.0 | 5.415793 | 50.0 | 4124530.0 | 1.083159 | Y |
| 3 | IC 680-761417/6 | 10.0 | 10.098635 | 50.0 | 4072778.0 | 1.009864 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 17.540805 | 50.0 | 4808813.0 | 0.87704 | Y |
| 5 | IC 680-761417/4 | 50.0 | 34.684318 | 50.0 | 4760307.0 | 0.693686 | Y |
| 6 | IC 680-761417/3 | 80.0 | 36.320087 | 50.0 | 4142709.0 | 0.454001 | N |
| 7 | IC 680-761417/2 | 100.0 | 61.506354 | 50.0 | 4448338.0 | 0.615064 | Y |



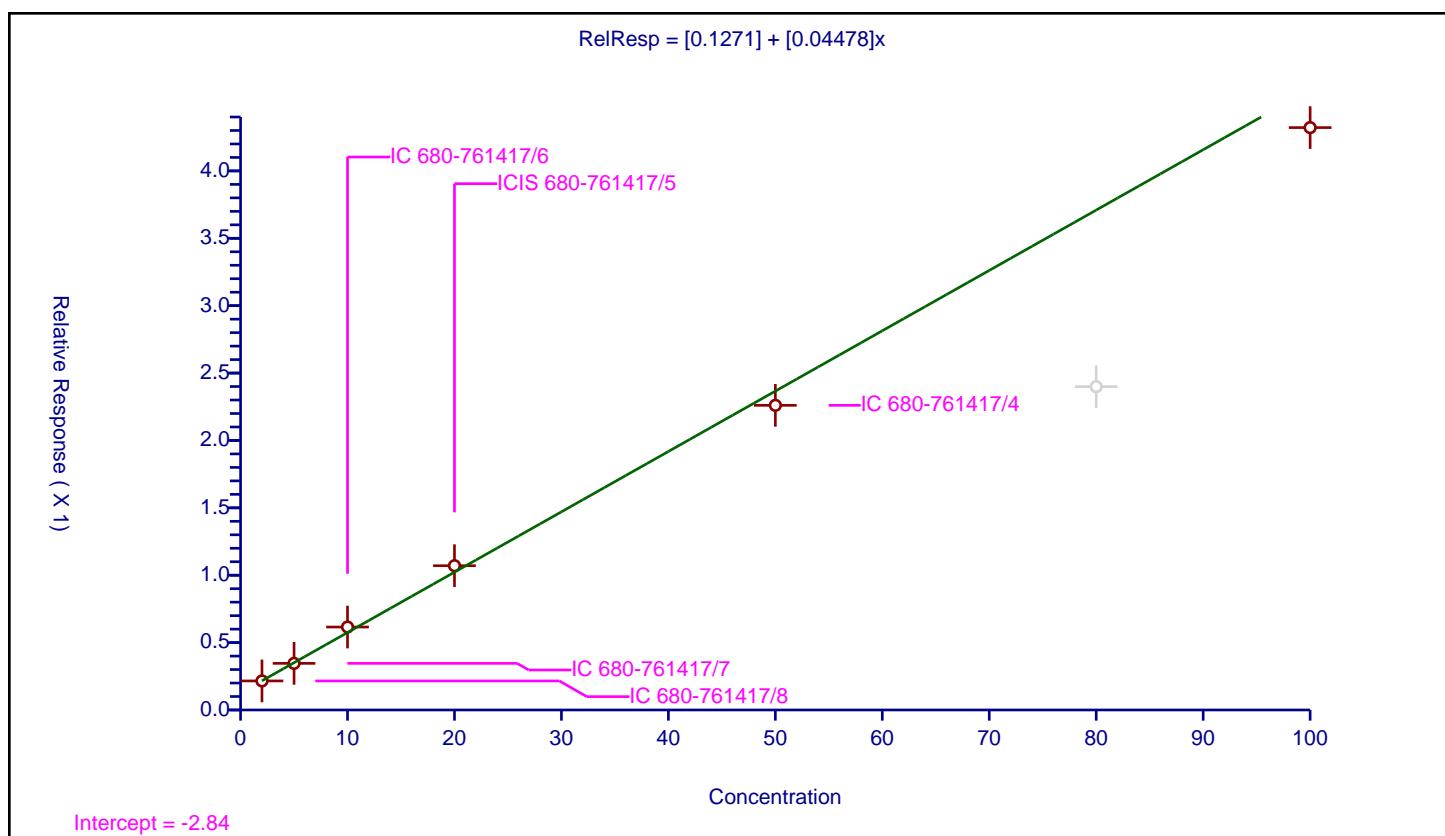
Calibration

/ Dipropylene Glycol Methyl Ether

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

| Curve Coefficients | |
|--|---------|
| Intercept: | 0.1271 |
| Slope: | 0.04478 |
| Error Coefficients | |
| Standard Error: | 228000 |
| Relative Standard Error: | 6.7 |
| Correlation Coefficient: | 0.996 |
| Coefficient of Determination (Adjusted): | 0.995 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 0.215642 | 50.0 | 3775471.0 | 0.107821 | Y |
| 2 | IC 680-761417/7 | 5.0 | 0.345967 | 50.0 | 4124530.0 | 0.069193 | Y |
| 3 | IC 680-761417/6 | 10.0 | 0.615501 | 50.0 | 4072778.0 | 0.06155 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 1.070638 | 50.0 | 4808813.0 | 0.053532 | Y |
| 5 | IC 680-761417/4 | 50.0 | 2.260674 | 50.0 | 4760307.0 | 0.045213 | Y |
| 6 | IC 680-761417/3 | 80.0 | 2.399336 | 50.0 | 4142709.0 | 0.029992 | N |
| 7 | IC 680-761417/2 | 100.0 | 4.321389 | 50.0 | 4448338.0 | 0.043214 | Y |



Calibration

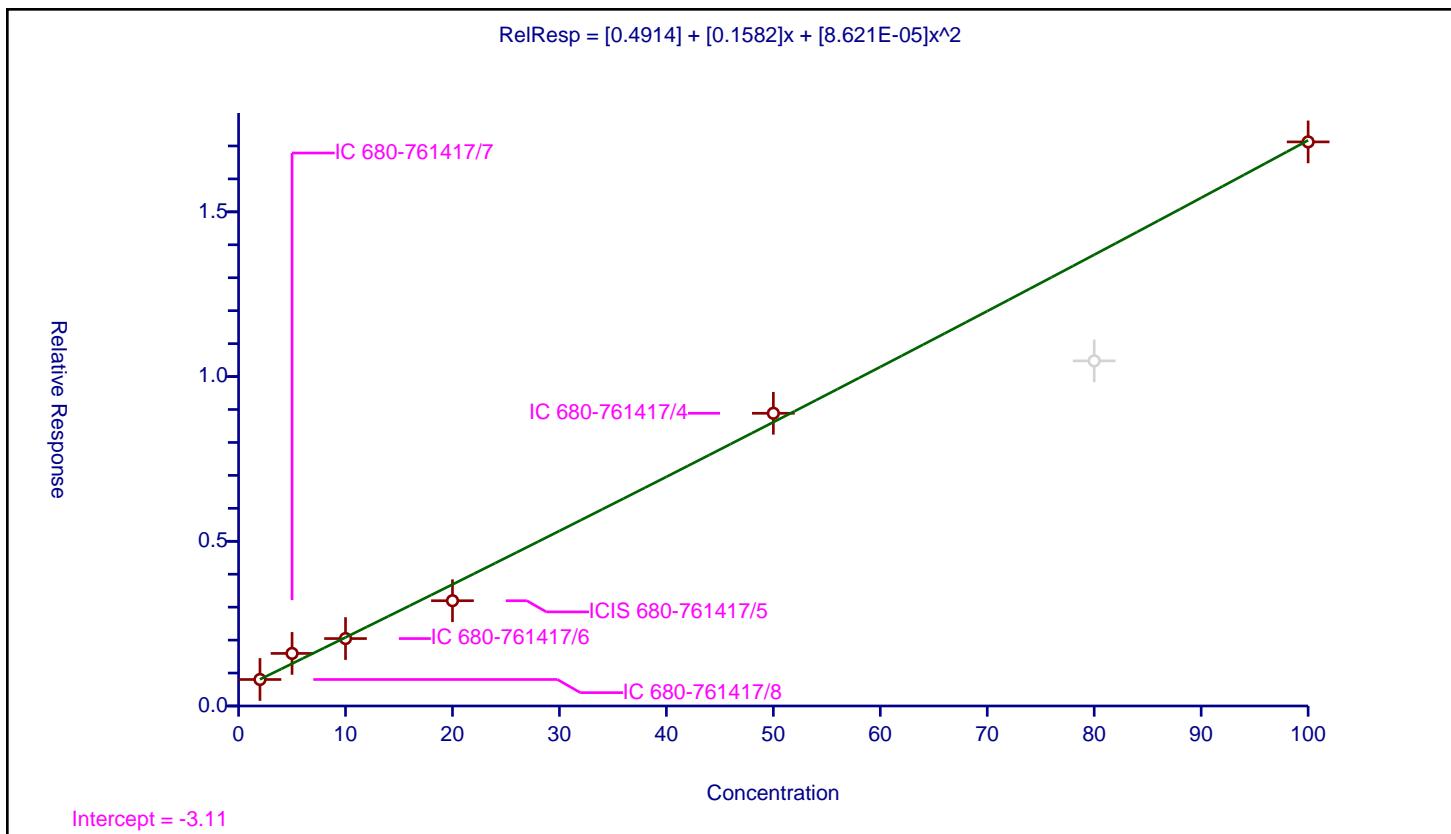
/ Propylene glycol

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|----------------------|-----------|
| | |
| Intercept: | 0.4914 |
| Slope: | 0.1582 |
| Second Order: | 8.621E-05 |

| Error Coefficients | |
|---|---------|
| | |
| Standard Error: | 1030000 |
| Relative Standard Error: | 24.4 |
| Correlation Coefficient: | 0.996 |
| Coefficient of Determination (Adjusted): | 0.998 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 0.803886 | 50.0 | 3775471.0 | 0.401943 | Y |
| 2 | IC 680-761417/7 | 5.0 | 1.595697 | 50.0 | 4124530.0 | 0.319139 | Y |
| 3 | IC 680-761417/6 | 10.0 | 2.046858 | 50.0 | 4072778.0 | 0.204686 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 3.195778 | 50.0 | 4808813.0 | 0.159789 | Y |
| 5 | IC 680-761417/4 | 50.0 | 8.885624 | 50.0 | 4760307.0 | 0.177712 | Y |
| 6 | IC 680-761417/3 | 80.0 | 10.476188 | 50.0 | 4142709.0 | 0.130952 | N |
| 7 | IC 680-761417/2 | 100.0 | 17.123294 | 50.0 | 4448338.0 | 0.171233 | Y |



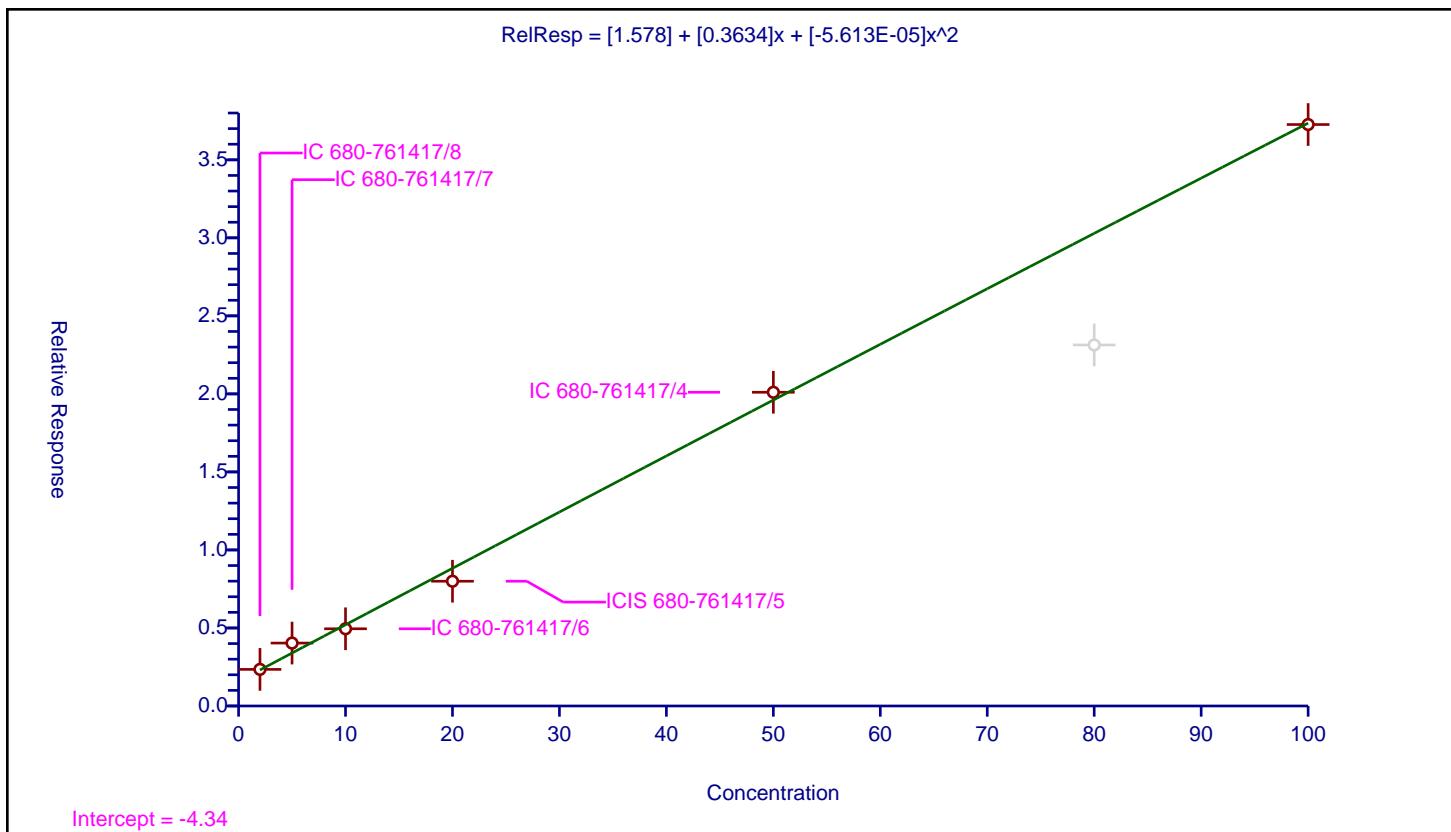
Calibration

/ Ethylene glycol

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|---|------------|
| Intercept: | 1.578 |
| Slope: | 0.3634 |
| Second Order: | -5.613E-05 |
| Error Coefficients | |
| Standard Error: | 2280000 |
| Relative Standard Error: | 22.0 |
| Correlation Coefficient: | 0.996 |
| Coefficient of Determination (Adjusted): | 0.998 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 2.345111 | 50.0 | 3775471.0 | 1.172556 | Y |
| 2 | IC 680-761417/7 | 5.0 | 4.031756 | 50.0 | 4124530.0 | 0.806351 | Y |
| 3 | IC 680-761417/6 | 10.0 | 4.948465 | 50.0 | 4072778.0 | 0.494847 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 7.995247 | 50.0 | 4808813.0 | 0.399762 | Y |
| 5 | IC 680-761417/4 | 50.0 | 20.104355 | 50.0 | 4760307.0 | 0.402087 | Y |
| 6 | IC 680-761417/3 | 80.0 | 23.135284 | 50.0 | 4142709.0 | 0.289191 | N |
| 7 | IC 680-761417/2 | 100.0 | 37.262254 | 50.0 | 4448338.0 | 0.372623 | Y |



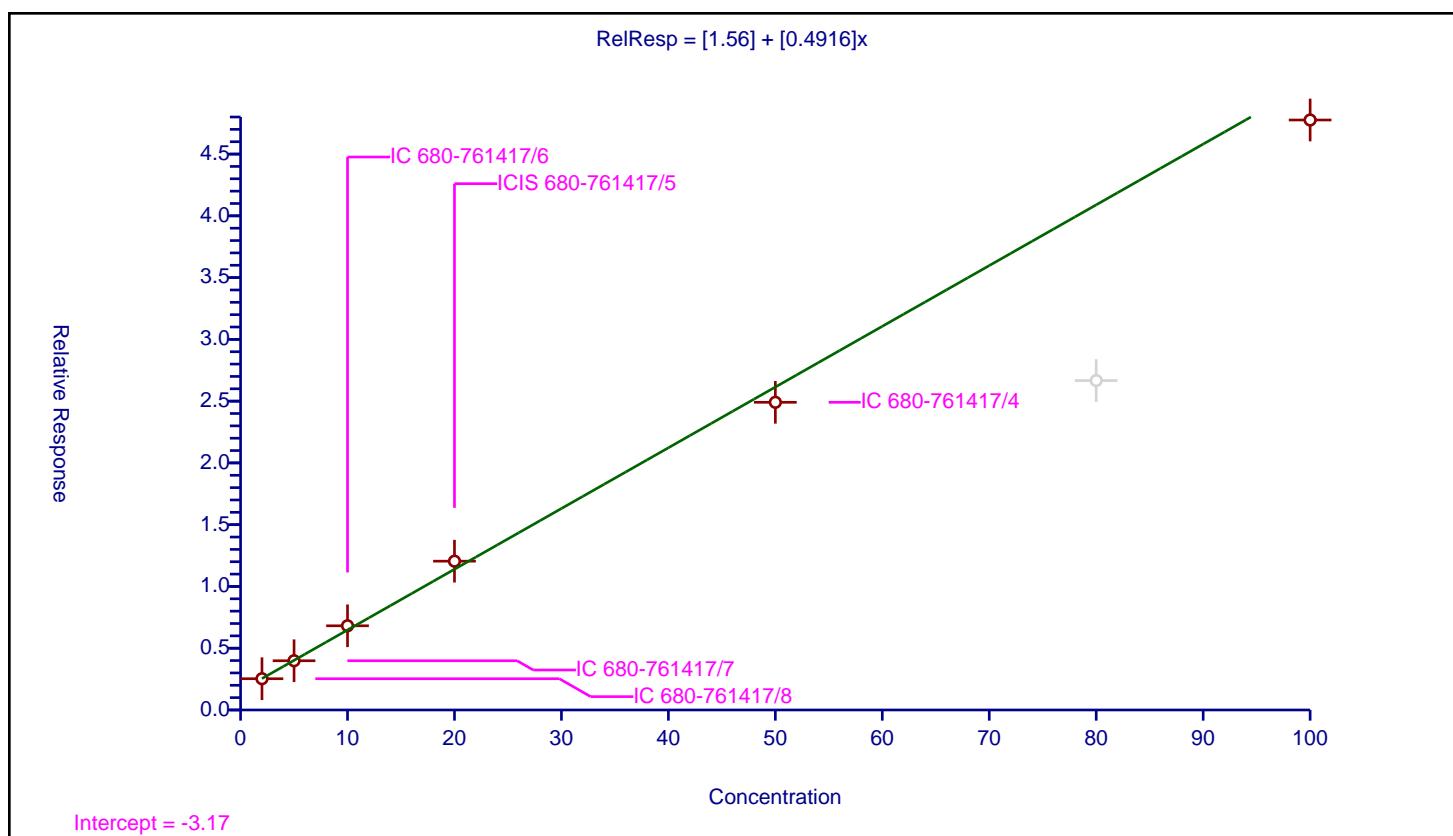
Calibration

/ 2-(2-Butoxyethoxy)ethanol

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

| Curve Coefficients | |
|--|---------|
| Intercept: | 1.56 |
| Slope: | 0.4916 |
| Error Coefficients | |
| Standard Error: | 2520000 |
| Relative Standard Error: | 6.3 |
| Correlation Coefficient: | 0.996 |
| Coefficient of Determination (Adjusted): | 0.995 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 2.531287 | 50.0 | 3775471.0 | 1.265643 | Y |
| 2 | IC 680-761417/7 | 5.0 | 3.986672 | 50.0 | 4124530.0 | 0.797334 | Y |
| 3 | IC 680-761417/6 | 10.0 | 6.815115 | 50.0 | 4072778.0 | 0.681511 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 12.046029 | 50.0 | 4808813.0 | 0.602301 | Y |
| 5 | IC 680-761417/4 | 50.0 | 24.906765 | 50.0 | 4760307.0 | 0.498135 | Y |
| 6 | IC 680-761417/3 | 80.0 | 26.666959 | 50.0 | 4142709.0 | 0.333337 | N |
| 7 | IC 680-761417/2 | 100.0 | 47.758612 | 50.0 | 4448338.0 | 0.477586 | Y |



Calibration

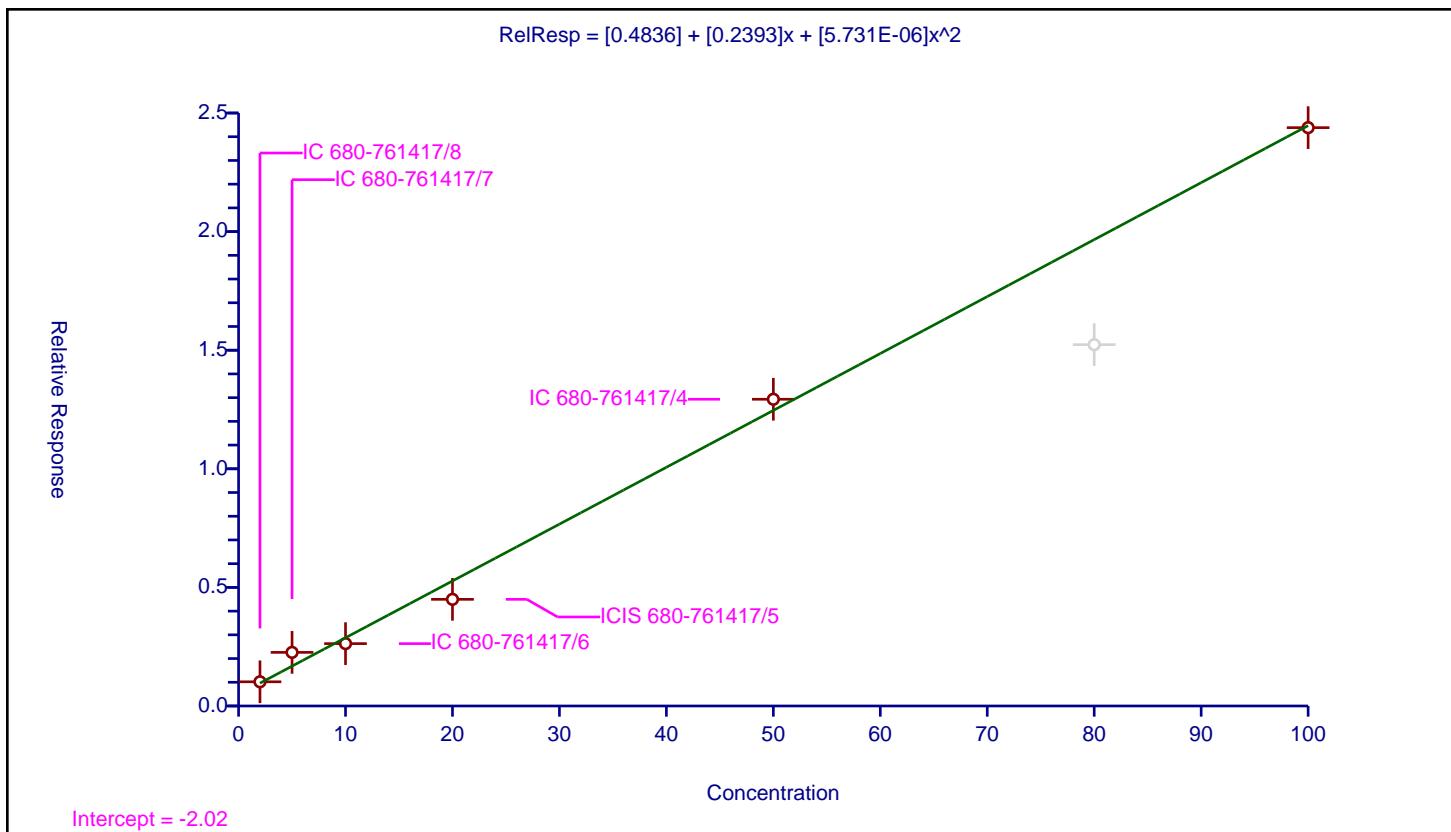
/ 2,2'-Oxybisethanol

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|----------------------|-----------|
| | |
| Intercept: | 0.4836 |
| Slope: | 0.2393 |
| Second Order: | 5.731E-06 |

| Error Coefficients | |
|---|---------|
| | |
| Standard Error: | 1470000 |
| Relative Standard Error: | 31.0 |
| Correlation Coefficient: | 0.995 |
| Coefficient of Determination (Adjusted): | 0.997 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 1.01978 | 50.0 | 3775471.0 | 0.50989 | Y |
| 2 | IC 680-761417/7 | 5.0 | 2.260209 | 50.0 | 4124530.0 | 0.452042 | Y |
| 3 | IC 680-761417/6 | 10.0 | 2.629483 | 50.0 | 4072778.0 | 0.262948 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 4.49611 | 50.0 | 4808813.0 | 0.224805 | Y |
| 5 | IC 680-761417/4 | 50.0 | 12.931845 | 50.0 | 4760307.0 | 0.258637 | Y |
| 6 | IC 680-761417/3 | 80.0 | 15.233981 | 50.0 | 4142709.0 | 0.190425 | N |
| 7 | IC 680-761417/2 | 100.0 | 24.382275 | 50.0 | 4448338.0 | 0.243823 | Y |



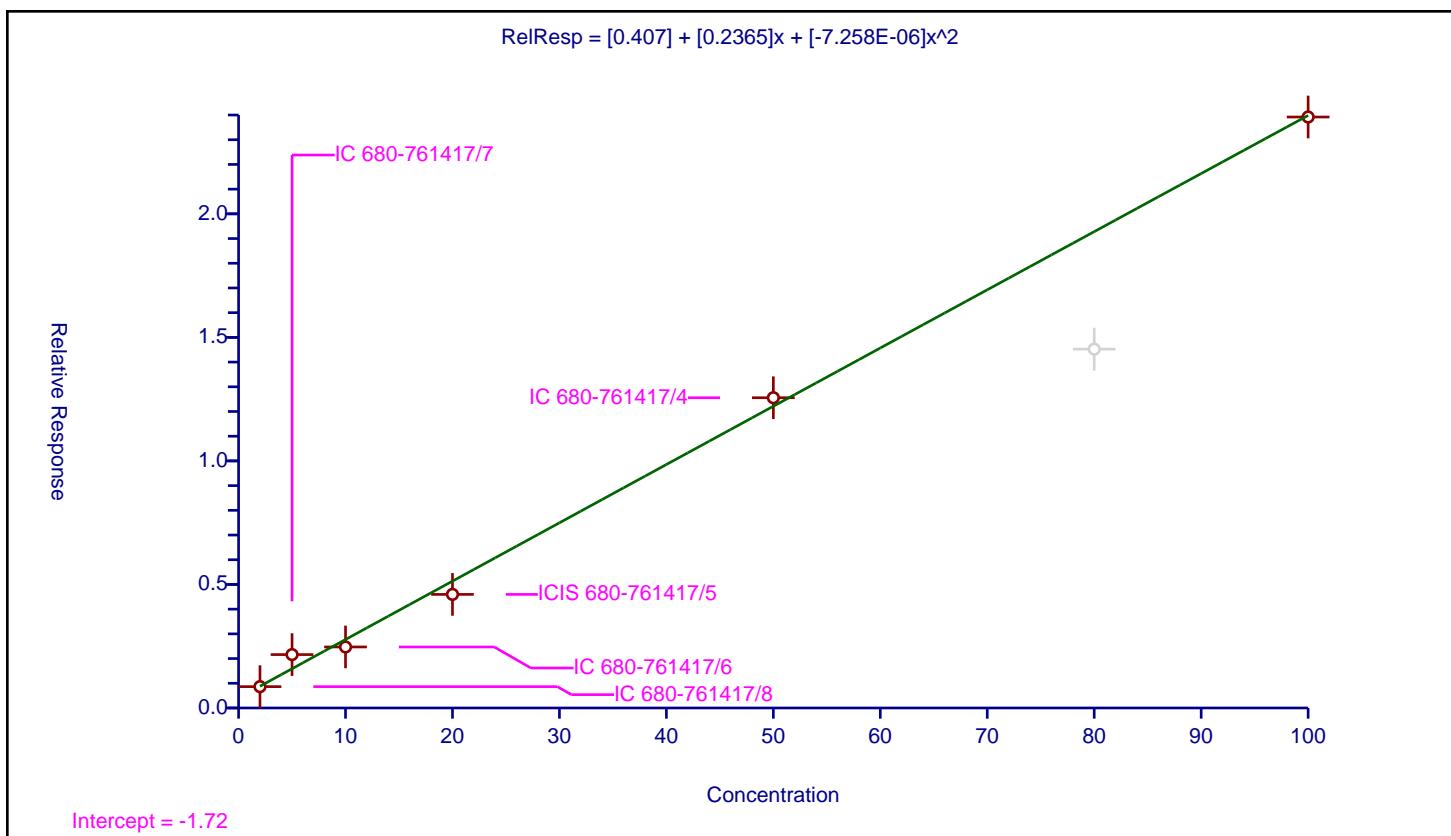
Calibration

/ Triethylene Glycol

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|---|------------|
| Intercept: | 0.407 |
| Slope: | 0.2365 |
| Second Order: | -7.258E-06 |
| Error Coefficients | |
| Standard Error: | 1440000 |
| Relative Standard Error: | 29.7 |
| Correlation Coefficient: | 0.996 |
| Coefficient of Determination (Adjusted): | 0.998 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 2.0 | 0.86425 | 50.0 | 3775471.0 | 0.432125 | Y |
| 2 | IC 680-761417/7 | 5.0 | 2.161301 | 50.0 | 4124530.0 | 0.43226 | Y |
| 3 | IC 680-761417/6 | 10.0 | 2.469445 | 50.0 | 4072778.0 | 0.246944 | Y |
| 4 | ICIS 680-761417/5 | 20.0 | 4.597829 | 50.0 | 4808813.0 | 0.229891 | Y |
| 5 | IC 680-761417/4 | 50.0 | 12.556911 | 50.0 | 4760307.0 | 0.251138 | Y |
| 6 | IC 680-761417/3 | 80.0 | 14.524204 | 50.0 | 4142709.0 | 0.181553 | N |
| 7 | IC 680-761417/2 | 100.0 | 23.919405 | 50.0 | 4448338.0 | 0.239194 | Y |



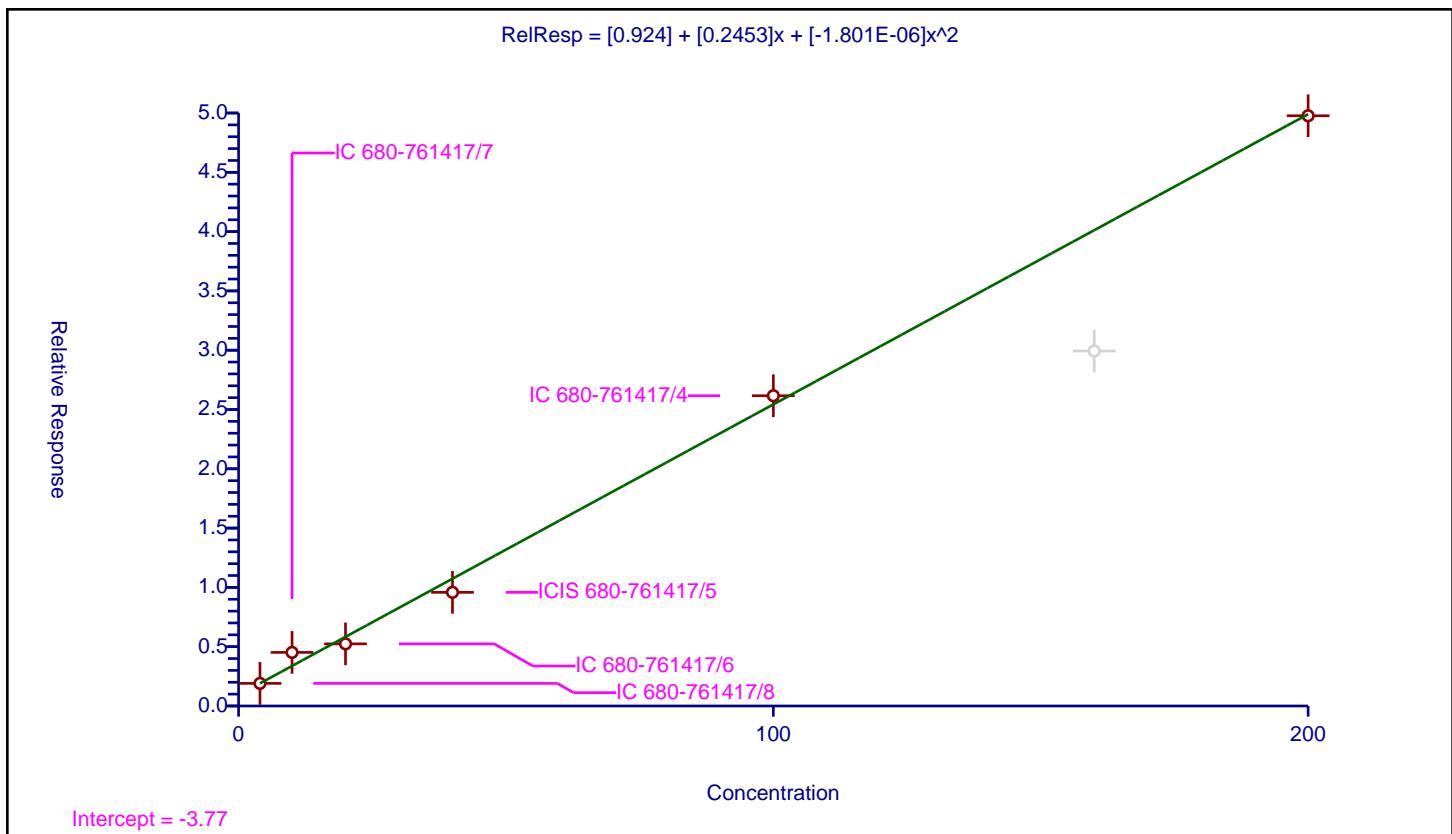
Calibration

/ Tetraethylene Glycol

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

| Curve Coefficients | |
|---|------------|
| Intercept: | 0.924 |
| Slope: | 0.2453 |
| Second Order: | -1.801E-06 |
| Error Coefficients | |
| Standard Error: | 3000000 |
| Relative Standard Error: | 28.6 |
| Correlation Coefficient: | 0.996 |
| Coefficient of Determination (Adjusted): | 0.998 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-761417/8 | 4.0 | 1.904637 | 50.0 | 3775471.0 | 0.476159 | Y |
| 2 | IC 680-761417/7 | 10.0 | 4.518236 | 50.0 | 4124530.0 | 0.451824 | Y |
| 3 | IC 680-761417/6 | 20.0 | 5.238808 | 50.0 | 4072778.0 | 0.26194 | Y |
| 4 | ICIS 680-761417/5 | 40.0 | 9.58224 | 50.0 | 4808813.0 | 0.239556 | Y |
| 5 | IC 680-761417/4 | 100.0 | 26.161674 | 50.0 | 4760307.0 | 0.261617 | Y |
| 6 | IC 680-761417/3 | 160.0 | 29.931936 | 50.0 | 4142709.0 | 0.187075 | N |
| 7 | IC 680-761417/2 | 200.0 | 49.768397 | 50.0 | 4448338.0 | 0.248842 | Y |



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Lab Sample ID: ICV 680-761417/9 Calibration Date: 01/31/2023 18:53

Instrument ID: CVGG2 Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/31/2023 18:30

Lab File ID: GA31016.D Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---------------------------------|------------|---------|--------|---------|-------------|--------------|------|--------|
| Ethanol, 2-propoxy | Qua | | 0.7205 | | 19.4 | 20.0 | -2.9 | 20.0 |
| 4-Hydroxy-4-methyl-2-pentanone | Qua | | 0.6731 | | 19.3 | 20.0 | -3.6 | 20.0 |
| 2-Butoxyethanol | Qua | | 0.8216 | | 20.0 | 20.0 | 0.0 | 20.0 |
| Dipropylene Glycol Methyl Ether | Lin2 | | 0.0498 | | 19.4 | 20.0 | -3.0 | 20.0 |
| Propylene glycol | Qua | | 0.1959 | | 21.4 | 20.0 | 7.0 | 20.0 |
| Ethylene glycol | Qua | | 0.4941 | | 22.9 | 20.0 | 14.7 | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Lin2 | | 0.5623 | | 19.7 | 20.0 | -1.5 | 20.0 |
| 2,2'-Oxybisethanol | Qua | | 0.2670 | | 20.3 | 20.0 | 1.4 | 20.0 |
| Triethylene Glycol | Qua | | 0.2717 | | 21.3 | 20.0 | 6.4 | 20.0 |
| Tetraethylene Glycol | Qua | | 0.2784 | | 41.7 | 40.0 | 4.1 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123350-1
SDG No.: _____
Lab Sample ID: ICV 680-761417/9 Calibration Date: 01/31/2023 18:53
Instrument ID: CVGG2 Calib Start Date: 01/31/2023 16:10
GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/31/2023 18:30
Lab File ID: GA31016.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 3.11 | 3.05 | 3.18 |
| 4-Hydroxy-4-methyl-2-pentanone | 3.70 | 3.63 | 3.78 |
| 2-Butoxyethanol | 4.02 | 3.94 | 4.10 |
| Dipropylene Glycol Methyl Ether | 5.45 | 5.34 | 5.56 |
| Propylene glycol | 6.61 | 6.47 | 6.73 |
| Ethylene glycol | 6.85 | 6.72 | 7.00 |
| 2-(2-Butoxyethoxy)ethanol | 8.75 | 8.57 | 8.92 |
| 2,2'-Oxybisethanol | 9.74 | 9.54 | 9.93 |
| Triethylene Glycol | 10.75 | 10.54 | 10.97 |
| Tetraethylene Glycol | 12.01 | 11.77 | 12.25 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31016.D
 Lims ID: icv gly
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-Jan-2023 18:53:46 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083575-009
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 01-Feb-2023 12:29:57 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1622

First Level Reviewer: SWK1 Date: 01-Feb-2023 12:25:23

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|------|------|--|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.109 | 3.115 | -0.006 | 1254164 | 20.0 | 19.4 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.699 | 3.705 | -0.006 | 1171657 | 20.0 | 19.3 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.016 | 4.020 | -0.004 | 1430145 | 20.0 | 20.0 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.493 | 4.493 | 0.000 | 4351971 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.446 | 5.450 | -0.004 | 86706 | 20.0 | 19.4 | |
| 6 Propylene glycol | | | | | | |
| 6.606 | 6.602 | 0.004 | 340962 | 20.0 | 21.4 | |
| 7 Ethylene glycol | | | | | | |
| 6.854 | 6.859 | -0.005 | 860184 | 20.0 | 22.9 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.748 | 8.749 | -0.001 | 978761 | 20.0 | 19.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.736 | 9.735 | 0.001 | 464740 | 20.0 | 20.3 | |
| 10 Triethylene Glycol | | | | | | |
| 10.751 | 10.751 | 0.000 | 473008 | 20.0 | 21.3 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.008 | 12.009 | -0.001 | 969331 | 40.0 | 41.7 | |

QC Flag Legend

Processing Flags

Reagents:

SG_GlyICV_00052
SG,GLY,ISTD,00105

Amount Added: 10.00 Units: uL
Amount Added: 10.00 Units: uL Run Reagent

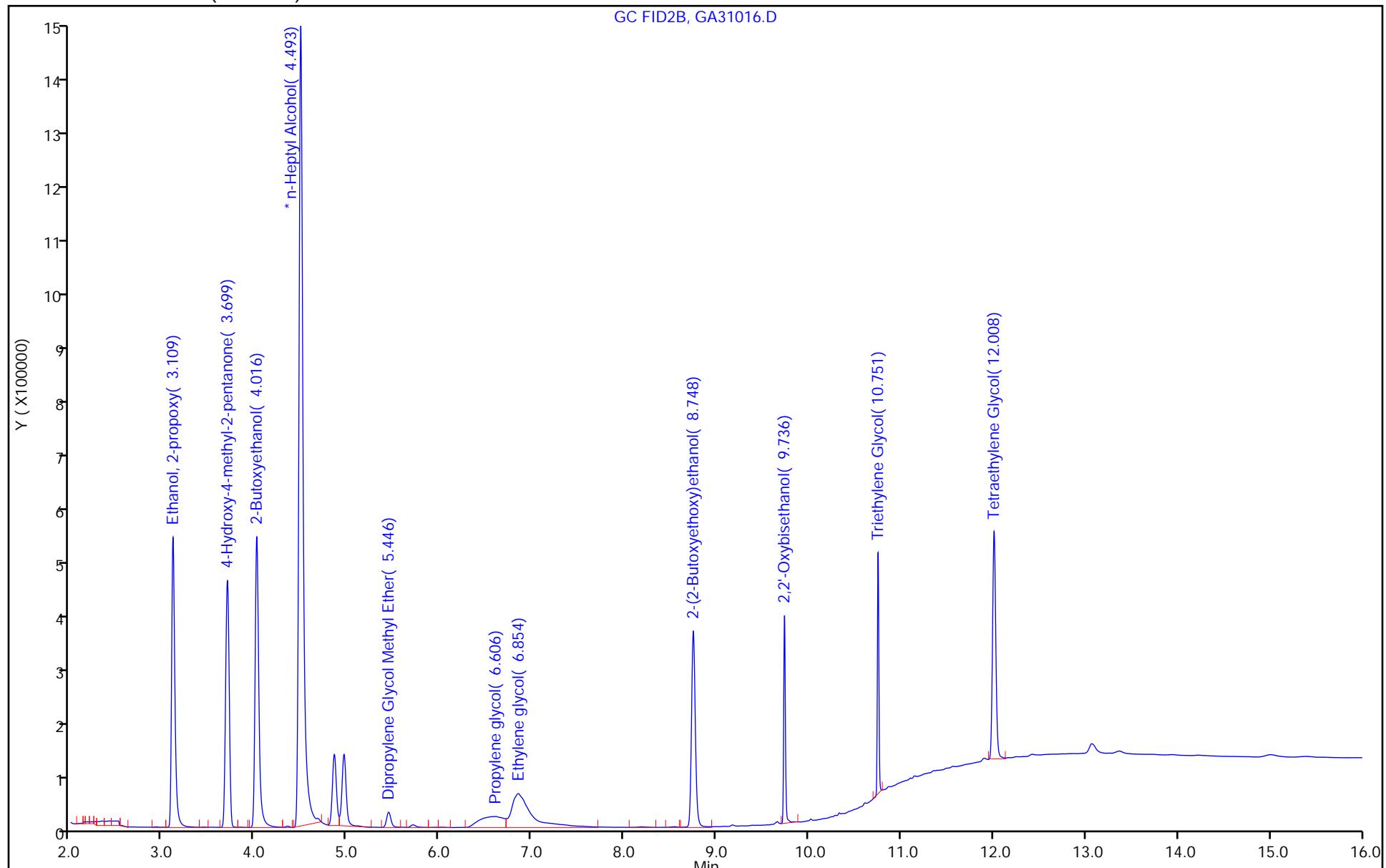
Report Date: 01-Feb-2023 12:29:57

Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230131-83575.b\\GA31016.D
Injection Date: 31-Jan-2023 18:53:46 Instrument ID: CVGG2
Lims ID: icv_gly Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 9



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Lab Sample ID: CCVIS 680-763222/5 Calibration Date: 02/13/2023 19:28

Instrument ID: CVGG2 Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/31/2023 18:30

Lab File ID: GB13005.D Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethanol, 2-propoxy | Qua | | 0.5955 | | 15.4 | 20.0 | -23.0* | 20.0 |
| 4-Hydroxy-4-methyl-2-pentanone | Qua | | 0.5718 | | 15.8 | 20.0 | -21.0* | 20.0 |
| 2-Butoxyethanol | Qua | | 0.6640 | | 15.4 | 20.0 | -23.0* | 20.0 |
| Dipropylene Glycol Methyl Ether | Lin2 | | 0.0472 | | 18.3 | 20.0 | -8.7 | 20.0 |
| Propylene glycol | Qua | | 0.1874 | | 20.4 | 20.0 | 1.8 | 20.0 |
| Ethylene glycol | Qua | | 0.4257 | | 19.1 | 20.0 | -4.3 | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Lin2 | | 0.5396 | | 18.8 | 20.0 | -6.1 | 20.0 |
| 2,2'-Oxybisethanol | Qua | | 0.2869 | | 22.0 | 20.0 | 9.8 | 20.0 |
| Triethylene Glycol | Qua | | 0.2620 | | 20.5 | 20.0 | 2.3 | 20.0 |
| Tetraethylene Glycol | Qua | | 0.2545 | | 37.8 | 40.0 | -5.6 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123350-1
SDG No.: _____
Lab Sample ID: CCVIS 680-763222/5 Calibration Date: 02/13/2023 19:28
Instrument ID: CVGG2 Calib Start Date: 01/31/2023 16:10
GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/31/2023 18:30
Lab File ID: GB13005.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 3.10 | 3.04 | 3.16 |
| 4-Hydroxy-4-methyl-2-pentanone | 3.69 | 3.61 | 3.76 |
| 2-Butoxyethanol | 4.01 | 3.93 | 4.09 |
| Dipropylene Glycol Methyl Ether | 5.44 | 5.33 | 5.54 |
| Propylene glycol | 6.58 | 6.45 | 6.71 |
| Ethylene glycol | 6.86 | 6.73 | 7.00 |
| 2-(2-Butoxyethoxy)ethanol | 8.74 | 8.57 | 8.92 |
| 2,2'-Oxybisethanol | 9.73 | 9.54 | 9.93 |
| Triethylene Glycol | 10.75 | 10.54 | 10.97 |
| Tetraethylene Glycol | 12.01 | 11.77 | 12.25 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13005.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 13-Feb-2023 19:28:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:54:40 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:54:40

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|-------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.102 | 3.102 | 0.000 | 1110636 | 20.0 | 15.4 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.686 | 3.686 | 0.000 | 1066567 | 20.0 | 15.8 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.010 | 4.010 | 0.000 | 1238515 | 20.0 | 15.4 | |
| * 4 n-Heptyl Alcohol | | | | | M | |
| 4.491 | 4.491 | 0.000 | 4662971 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.435 | 5.435 | 0.000 | 88092 | 20.0 | 18.3 | |
| 6 Propylene glycol | | | | | | |
| 6.580 | 6.580 | 0.000 | 349597 | 20.0 | 20.4 | |
| 7 Ethylene glycol | | | | | | |
| 6.864 | 6.864 | 0.000 | 793952 | 20.0 | 19.1 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.741 | 8.741 | 0.000 | 1006514 | 20.0 | 18.8 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.734 | 9.734 | 0.000 | 535187 | 20.0 | 22.0 | |
| 10 Triethylene Glycol | | | | | | |
| 10.751 | 10.751 | 0.000 | 488703 | 20.0 | 20.5 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.008 | 12.008 | 0.000 | 949442 | 40.0 | 37.8 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

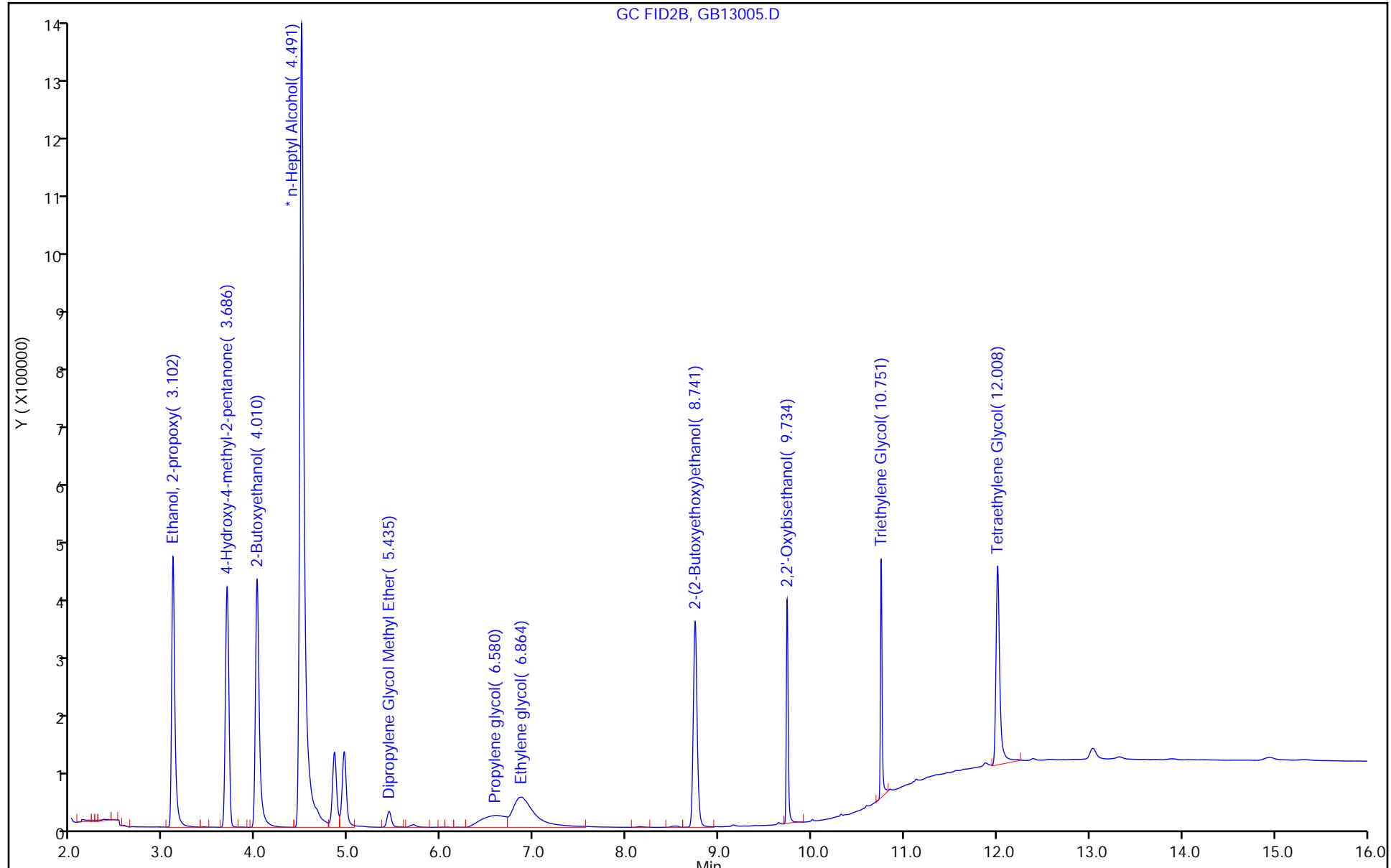
Report Date: 14-Feb-2023 19:54:40

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13005.D
Injection Date: 13-Feb-2023 19:28:00 Instrument ID: CVGG2
Lims ID: ccvis Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 5



Eurofins Savannah

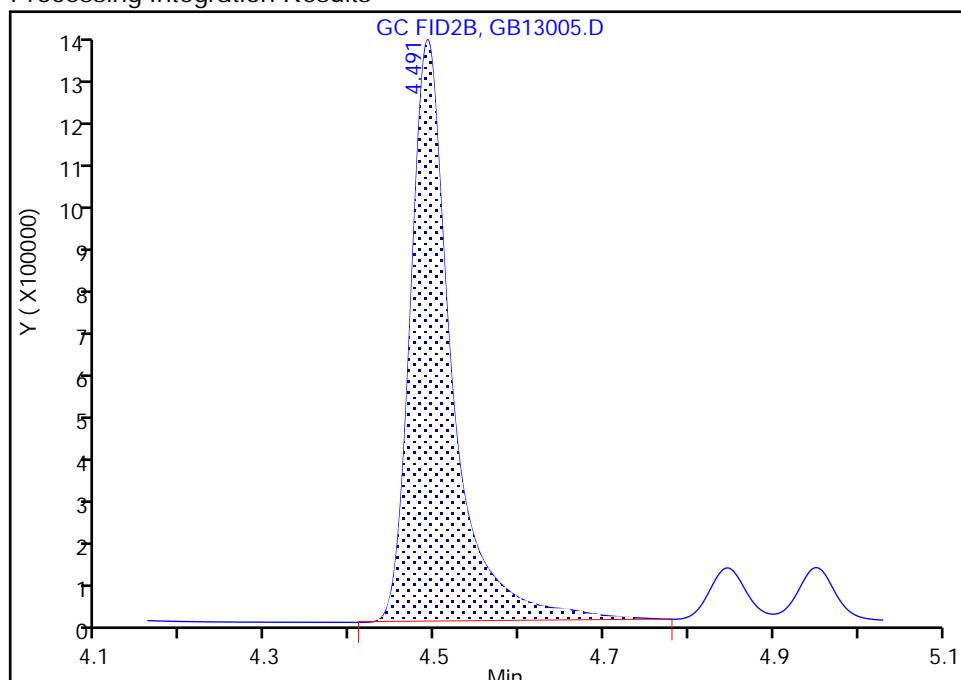
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13005.D
 Injection Date: 13-Feb-2023 19:28:00 Instrument ID: CVGG2
 Lims ID: ccvis
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

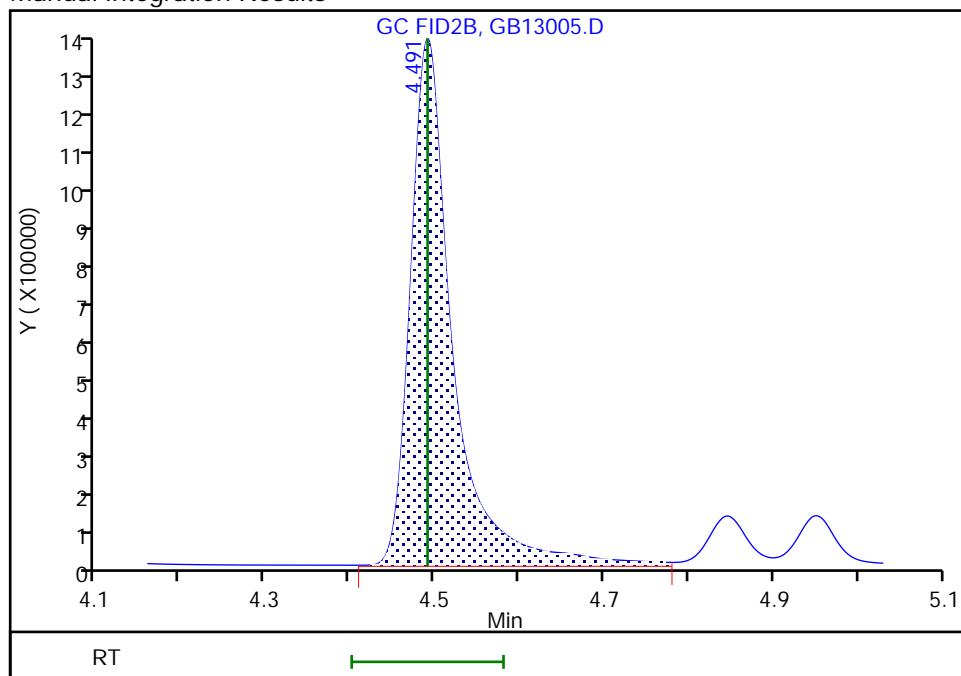
RT: 4.49
 Area: 4586409
 Amount: 50.000000
 Amount Units: ug/ml

Processing Integration Results



RT: 4.49
 Area: 4662971
 Amount: 50.000000
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:54:15

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.:

Lab Sample ID: CCV 680-763222/26

Calibration Date: 02/14/2023 03:36

Instrument ID: CVGG2

Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX ID: 0.45 (mm)

Calib End Date: 01/31/2023 18:30

Lab File ID: GB13026.D

Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethanol, 2-propoxy | Qua | | 0.6157 | | 16.0 | 20.0 | -19.8 | 20.0 |
| 4-Hydroxy-4-methyl-2-pentanone | Qua | | 0.5446 | | 14.9 | 20.0 | -25.7* | 20.0 |
| 2-Butoxyethanol | Qua | | 0.6864 | | 16.1 | 20.0 | -19.7 | 20.0 |
| Dipropylene Glycol Methyl Ether | Lin2 | | 0.0429 | | 16.3 | 20.0 | -18.4 | 20.0 |
| Propylene glycol | Qua | | 0.1606 | | 17.0 | 20.0 | -14.8 | 20.0 |
| Ethylene glycol | Qua | | 0.3312 | | 13.9 | 20.0 | -30.4* | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Lin2 | | 0.4739 | | 16.1 | 20.0 | -19.5 | 20.0 |
| 2,2'-Oxybisethanol | Qua | | 0.1390 | | 9.60 | 20.0 | -52.0* | 20.0 |
| Triethylene Glycol | Qua | | 0.0859 | | 5.55 | 20.0 | -72.3* | 20.0 |
| Tetraethylene Glycol | Qua | | 0.0241 | | 10.0 | 40.0 | -99.6* | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.:

Lab Sample ID: CCV 680-763222/26

Calibration Date: 02/14/2023 03:36

Instrument ID: CVGG2

Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX ID: 0.45 (mm)

Calib End Date: 01/31/2023 18:30

Lab File ID: GB13026.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 3.10 | 3.04 | 3.16 |
| 4-Hydroxy-4-methyl-2-pentanone | 3.69 | 3.61 | 3.76 |
| 2-Butoxyethanol | 4.01 | 3.93 | 4.09 |
| Dipropylene Glycol Methyl Ether | 5.44 | 5.33 | 5.54 |
| Propylene glycol | 6.61 | 6.48 | 6.74 |
| Ethylene glycol | 6.84 | 6.70 | 6.97 |
| 2-(2-Butoxyethoxy)ethanol | 8.74 | 8.57 | 8.92 |
| 2,2'-Oxybisethanol | 9.73 | 9.54 | 9.93 |
| Triethylene Glycol | 10.75 | 10.54 | 10.97 |
| Tetraethylene Glycol | 12.02 | 11.78 | 12.26 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13026.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Feb-2023 03:36:45 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-026
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:53:55 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:49:02

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|-------|---------|------|--------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.101 | 3.101 | 0.000 | 1454301 | 20.0 | 16.0 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.686 | 3.686 | 0.000 | 1286440 | 20.0 | 14.9 | |
| 3 2-Butoxyethanol | | | | | | M |
| 4.007 | 4.007 | 0.000 | 1621426 | 20.0 | 16.1 | M |
| * 4 n-Heptyl Alcohol | | | | | | M |
| 4.485 | 4.485 | 0.000 | 5905273 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.435 | 5.435 | 0.000 | 101333 | 20.0 | 16.3 | |
| 6 Propylene glycol | | | | | | M |
| 6.611 | 6.611 | 0.000 | 379254 | 20.0 | 17.0 | M |
| 7 Ethylene glycol | | | | | | |
| 6.836 | 6.836 | 0.000 | 782297 | 20.0 | 13.9 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.740 | 8.740 | 0.000 | 1119374 | 20.0 | 16.1 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.733 | 9.733 | 0.000 | 328384 | 20.0 | 9.60 | |
| 10 Triethylene Glycol | | | | | | |
| 10.751 | 10.751 | 0.000 | 203012 | 20.0 | 5.55 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.016 | 12.016 | 0.000 | 113773 | 40.0 | 0.1601 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

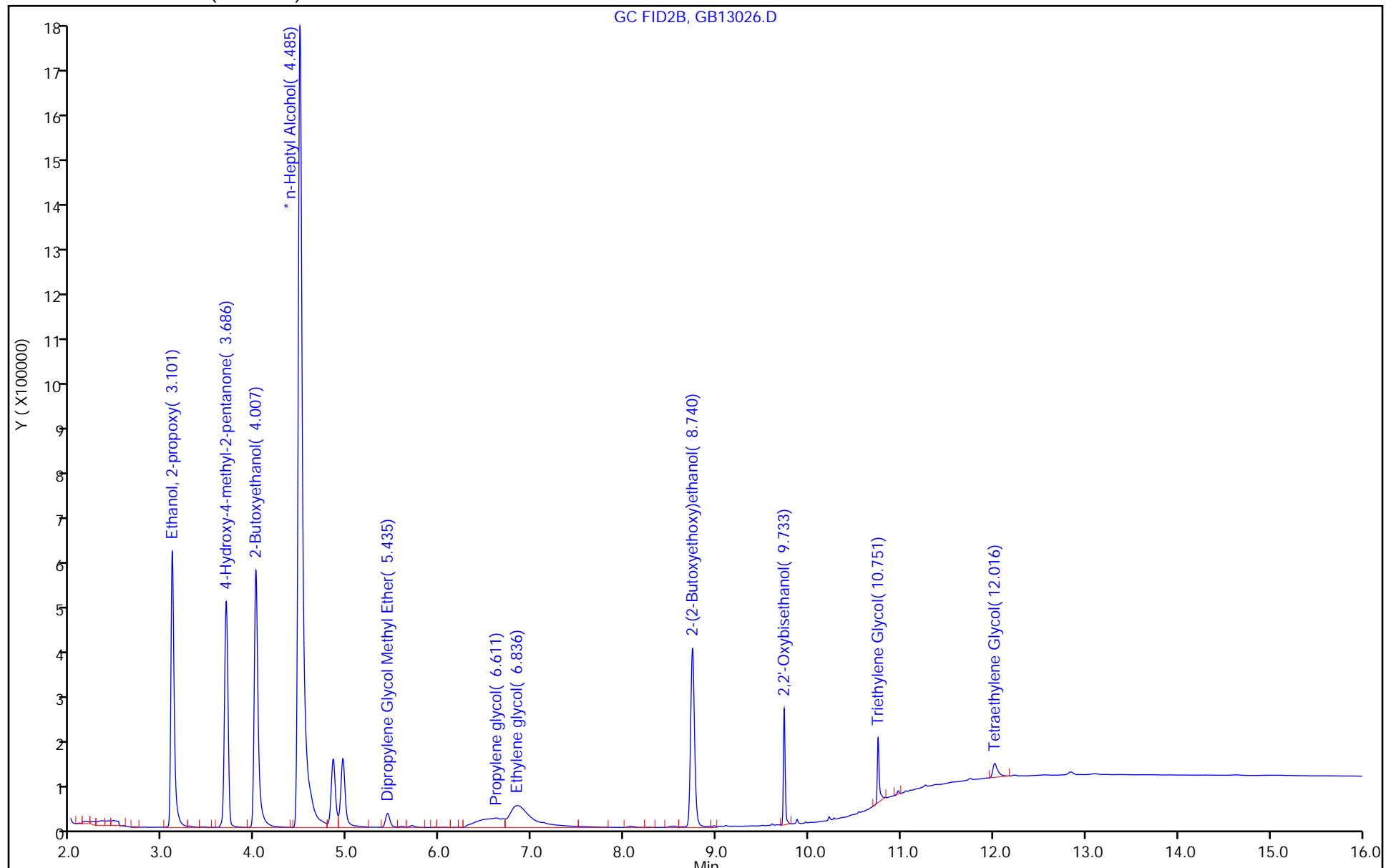
Report Date: 14-Feb-2023 19:53:55

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13026.D
Injection Date: 14-Feb-2023 03:36:45 Instrument ID: CVGG2
Lims ID: ccv Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 26



Eurofins Savannah

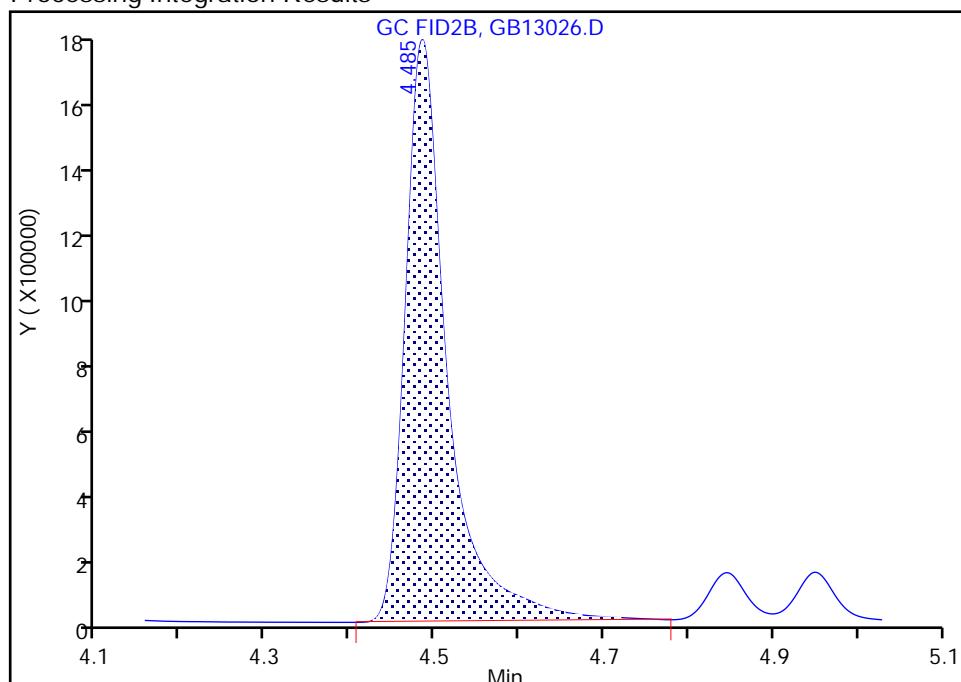
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13026.D
 Injection Date: 14-Feb-2023 03:36:45 Instrument ID: CVGG2
 Lims ID: ccv
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

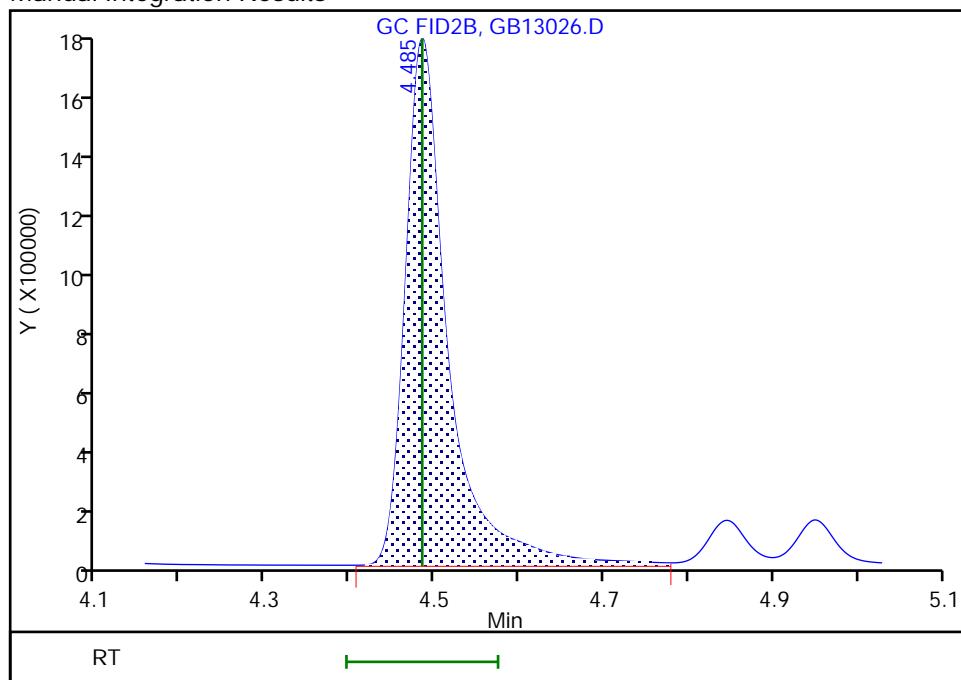
RT: 4.48
 Area: 5822924
 Amount: 50.000000
 Amount Units: ug/ml

Processing Integration Results



RT: 4.48
 Area: 5905273
 Amount: 50.000000
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:48:28

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

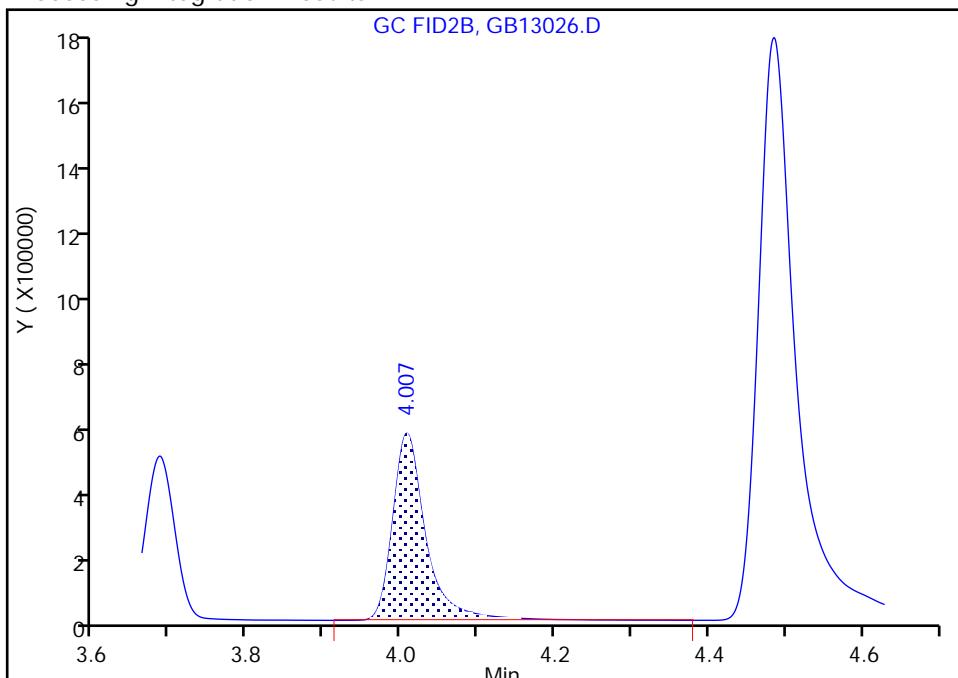
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13026.D
 Injection Date: 14-Feb-2023 03:36:45 Instrument ID: CVGG2
 Lims ID: ccv
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

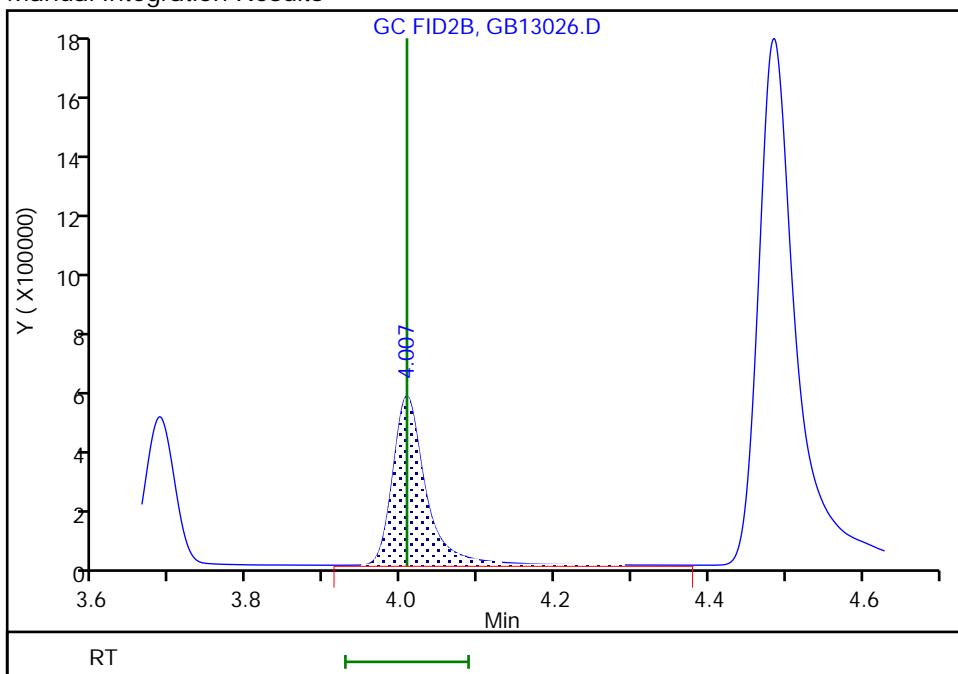
Processing Integration Results

RT: 4.01
 Area: 1622574
 Amount: 16.351957
 Amount Units: ug/ml



Manual Integration Results

RT: 4.01
 Area: 1621426
 Amount: 16.056243
 Amount Units: ug/ml



Reviewer: SK9U, 14-Feb-2023 19:48:28

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

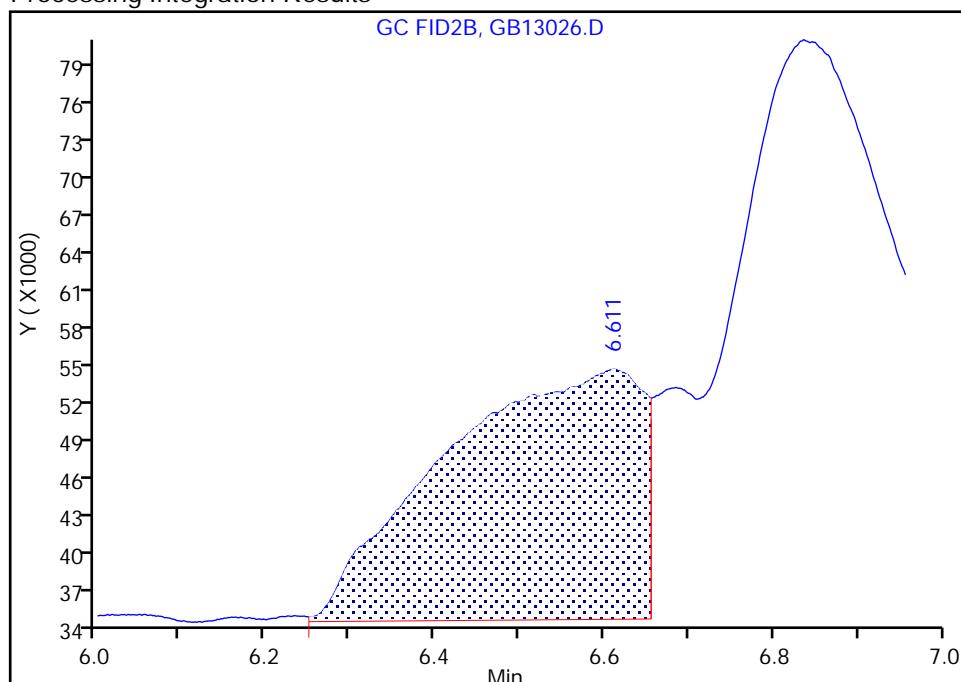
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13026.D
 Injection Date: 14-Feb-2023 03:36:45 Instrument ID: CVGG2
 Lims ID: ccv
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

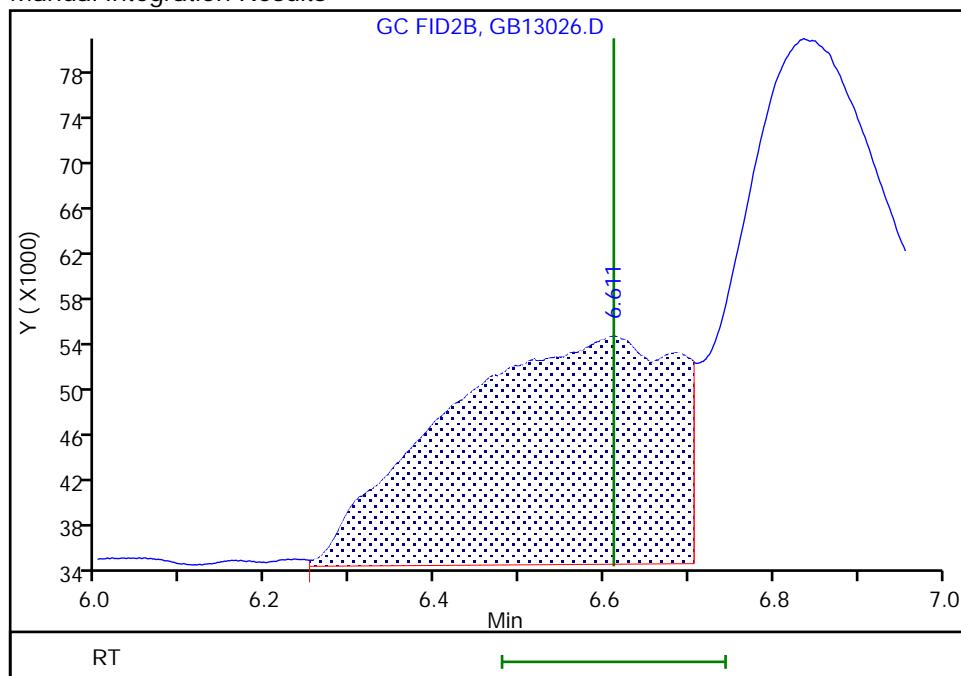
RT: 6.61
 Area: 322001
 Amount: 14.262329
 Amount Units: ug/ml

Processing Integration Results



RT: 6.61
 Area: 379254
 Amount: 17.035900
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:48:17

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.:

Lab Sample ID: CCV 680-763222/35

Calibration Date: 02/14/2023 07:06

Instrument ID: CVGG2

Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX ID: 0.45 (mm)

Calib End Date: 01/31/2023 18:30

Lab File ID: GB13035.D

Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---------------------------------|------------|---------|--------|---------|-------------|--------------|---------|--------|
| Ethanol, 2-propoxy | Qua | | 0.7229 | | 19.5 | 20.0 | -2.4 | 20.0 |
| 4-Hydroxy-4-methyl-2-pentanone | Qua | | 0.6314 | | 17.8 | 20.0 | -10.8 | 20.0 |
| 2-Butoxyethanol | Qua | | 0.7783 | | 18.7 | 20.0 | -6.3 | 20.0 |
| Dipropylene Glycol Methyl Ether | Lin2 | | 0.0549 | | 21.7 | 20.0 | 8.4 | 20.0 |
| Propylene glycol | Qua | | 0.1697 | | 18.2 | 20.0 | -9.2 | 20.0 |
| Ethylene glycol | Qua | | 0.3353 | | 14.1 | 20.0 | -29.3* | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Lin2 | | 0.5908 | | 20.9 | 20.0 | 4.3 | 20.0 |
| 2,2'-Oxybisethanol | Qua | | 0.1212 | | 8.11 | 20.0 | -59.5* | 20.0 |
| Triethylene Glycol | Qua | | 0.0524 | | 2.71 | 20.0 | -86.4* | 20.0 |
| Tetraethylene Glycol | Qua | | | | 10.0 | 40.0 | -100.0* | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123350-1
 SDG No.: _____
 Lab Sample ID: CCV 680-763222/35 Calibration Date: 02/14/2023 07:06
 Instrument ID: CVGG2 Calib Start Date: 01/31/2023 16:10
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/31/2023 18:30
 Lab File ID: GB13035.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 3.11 | 3.04 | 3.17 |
| 4-Hydroxy-4-methyl-2-pentanone | 3.69 | 3.62 | 3.76 |
| 2-Butoxyethanol | 4.01 | 3.93 | 4.09 |
| Dipropylene Glycol Methyl Ether | 5.44 | 5.33 | 5.55 |
| Propylene glycol | 6.69 | 6.55 | 6.82 |
| Ethylene glycol | 6.85 | 6.71 | 6.98 |
| 2-(2-Butoxyethoxy)ethanol | 8.74 | 8.56 | 8.91 |
| 2,2'-Oxybisethanol | 9.74 | 9.54 | 9.93 |
| Triethylene Glycol | 10.75 | 10.54 | 10.97 |
| Tetraethylene Glycol | | | |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13035.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Feb-2023 07:06:11 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-035
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:53:54 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:52:28

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|-------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.105 | 3.105 | 0.000 | 1491180 | 20.0 | 19.5 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.690 | 3.690 | 0.000 | 1302355 | 20.0 | 17.8 | |
| 3 2-Butoxyethanol | | | | | M | |
| 4.008 | 4.008 | 0.000 | 1605308 | 20.0 | 18.7 | M |
| * 4 n-Heptyl Alcohol | | | | | M | |
| 4.482 | 4.482 | 0.000 | 5156643 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.436 | 5.436 | 0.000 | 113197 | 20.0 | 21.7 | |
| 6 Propylene glycol | | | | | M | |
| 6.687 | 6.687 | 0.000 | 349934 | 20.0 | 18.2 | M |
| 7 Ethylene glycol | | | | | | |
| 6.845 | 6.845 | 0.000 | 691664 | 20.0 | 14.1 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.739 | 8.739 | 0.000 | 1218553 | 20.0 | 20.9 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.736 | 9.736 | 0.000 | 249955 | 20.0 | 8.11 | |
| 10 Triethylene Glycol | | | | | | |
| 10.754 | 10.754 | 0.000 | 108127 | 20.0 | 2.71 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

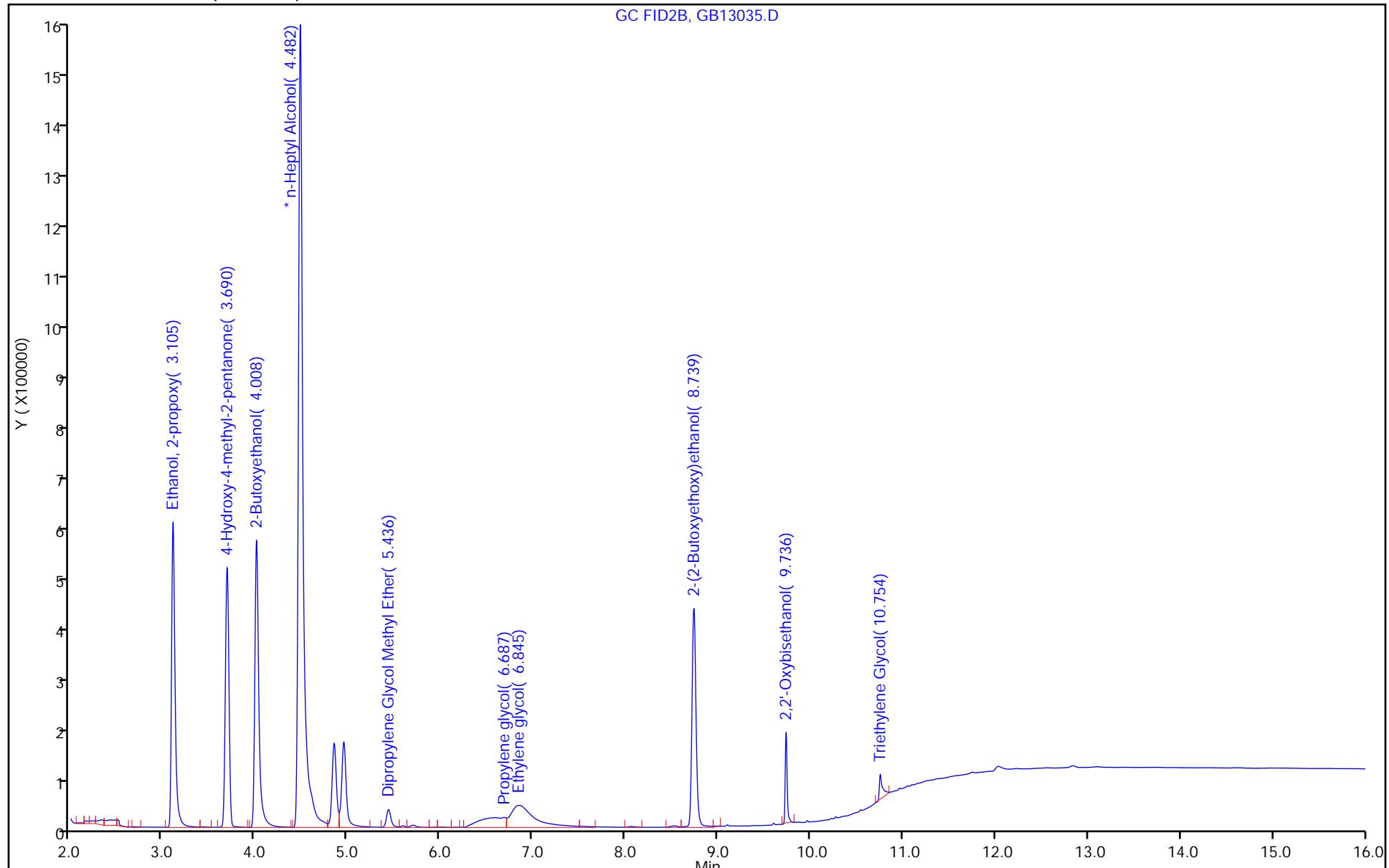
Report Date: 14-Feb-2023 19:53:54

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13035.D
Injection Date: 14-Feb-2023 07:06:11 Instrument ID: CVGG2
Lims ID: ccv Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 35



Eurofins Savannah

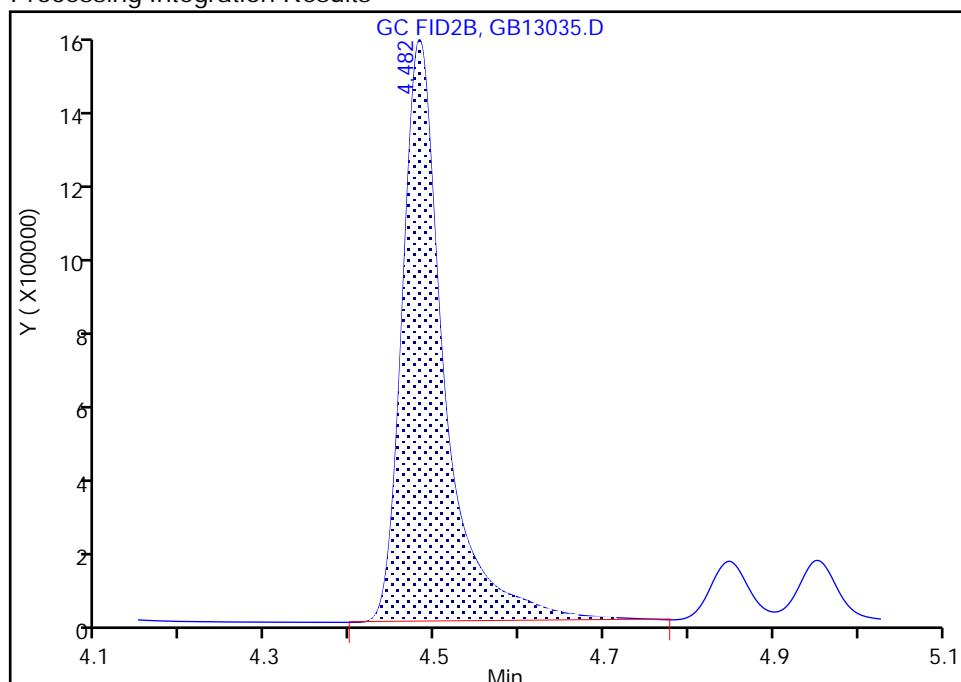
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13035.D
 Injection Date: 14-Feb-2023 07:06:11 Instrument ID: CVGG2
 Lims ID: ccv
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

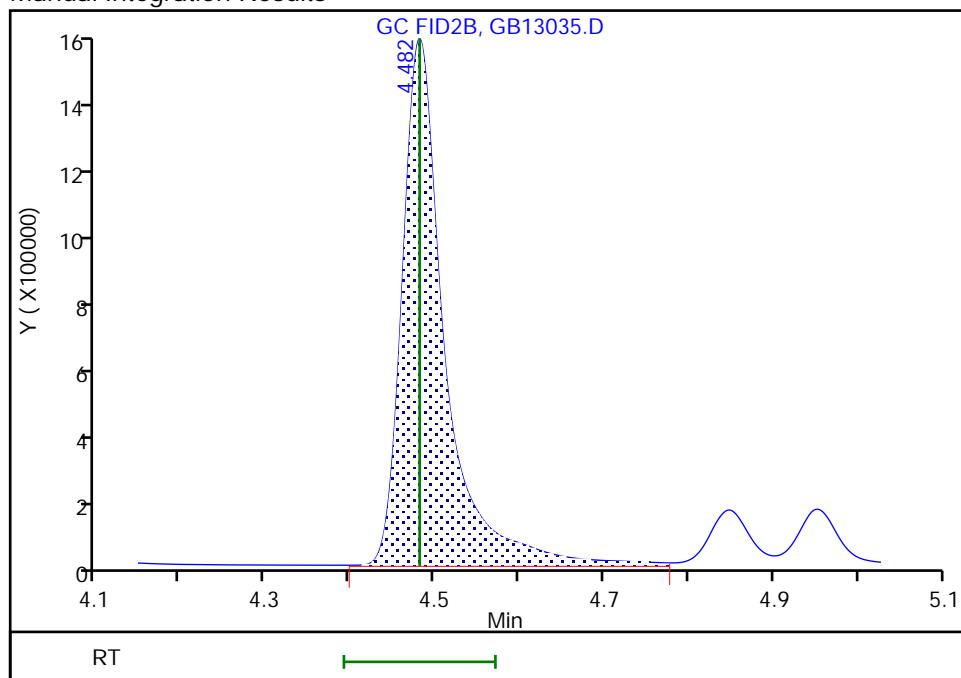
RT: 4.48
 Area: 5085902
 Amount: 50.000000
 Amount Units: ug/ml

Processing Integration Results



RT: 4.48
 Area: 5156643
 Amount: 50.000000
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:52:13

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

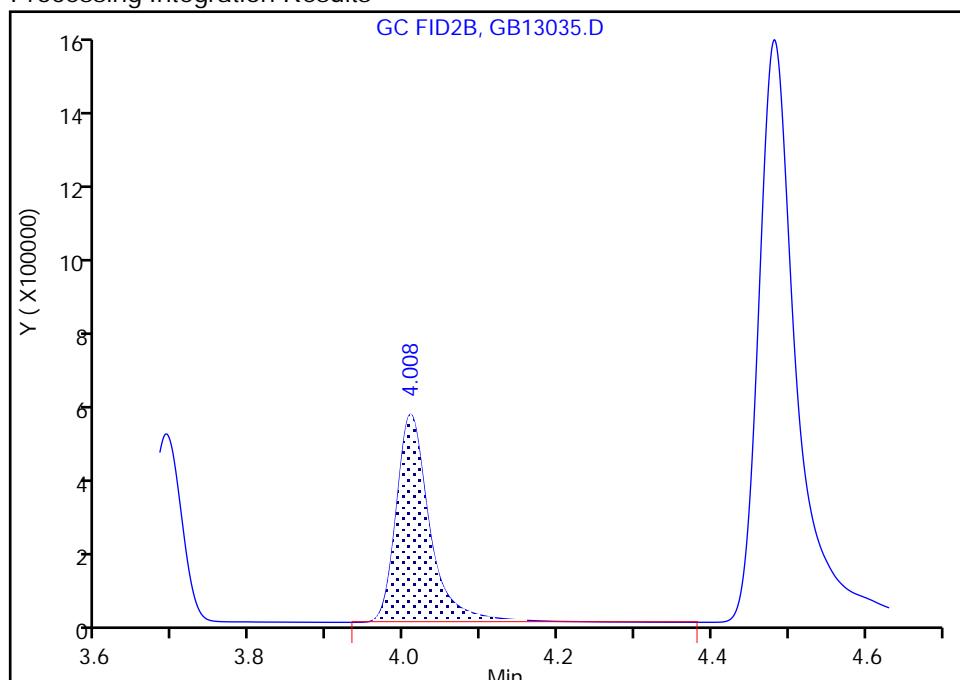
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13035.D
 Injection Date: 14-Feb-2023 07:06:11 Instrument ID: CVGG2
 Lims ID: ccv
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

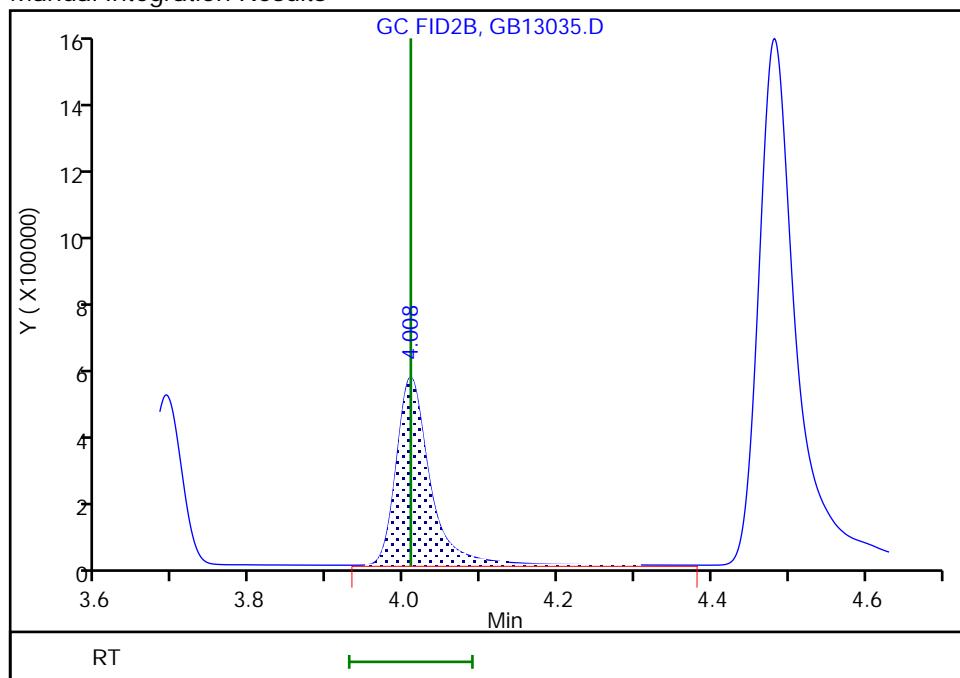
RT: 4.01
 Area: 1604554
 Amount: 19.038785
 Amount Units: ug/ml

Processing Integration Results



RT: 4.01
 Area: 1605308
 Amount: 18.732218
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:52:13

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

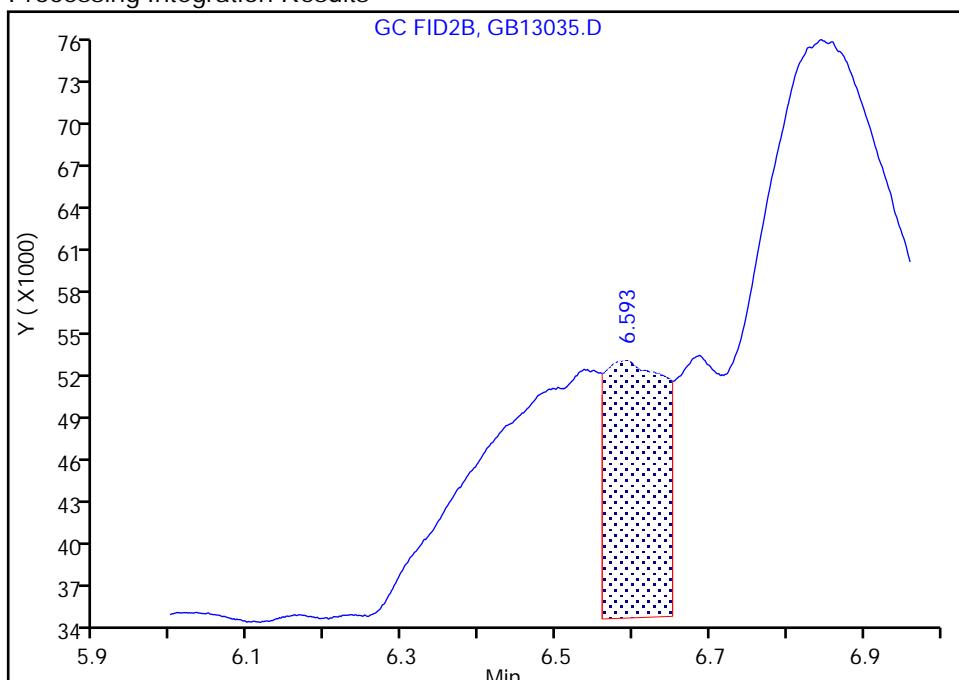
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13035.D
 Injection Date: 14-Feb-2023 07:06:11 Instrument ID: CVGG2
 Lims ID: ccv
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

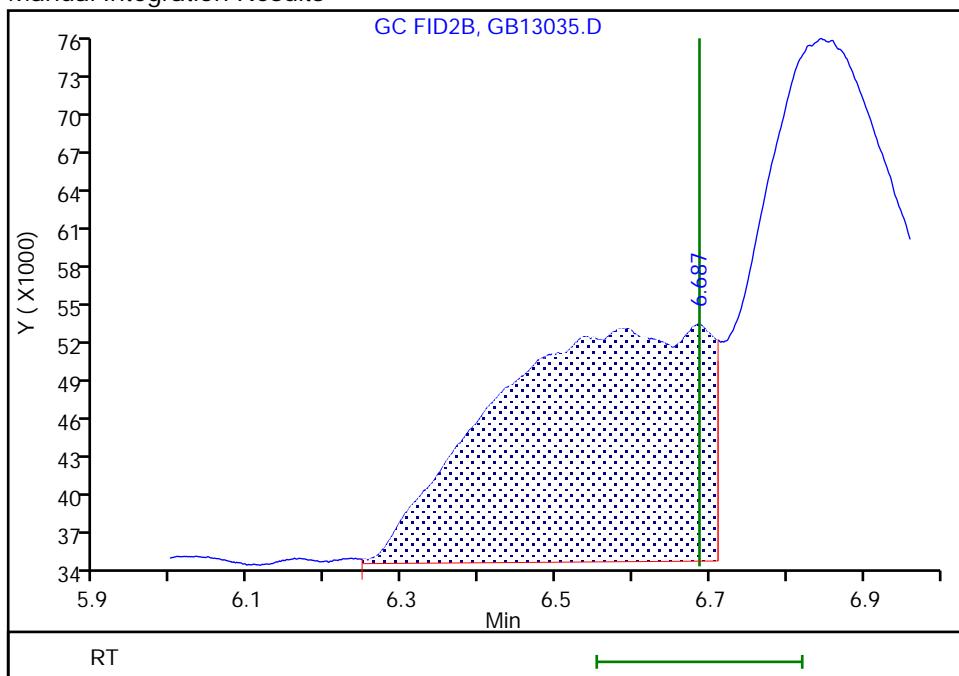
RT: 6.59
 Area: 95091
 Amount: 2.718331
 Amount Units: ug/ml

Processing Integration Results



RT: 6.69
 Area: 349934
 Amount: 18.164177
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:52:23

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 680-763222/10

Matrix: Water Lab File ID: GB13010.D

Analysis Method: 8015C GLY Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 02/13/2023 21:24

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 763222 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|-----|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 3.0 | U M | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13010.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 13-Feb-2023 21:24:32 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-010
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:53:19 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:40:57

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------|------------------|------------------|----------|------------------|--------------------|-------|
|--------------|------------------|------------------|----------|------------------|--------------------|-------|

* 4 n-Heptyl Alcohol
 4.487 4.482 0.005 4991434 50.0 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 14-Feb-2023 19:53:52

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13010.D

Injection Date: 13-Feb-2023 21:24:32

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

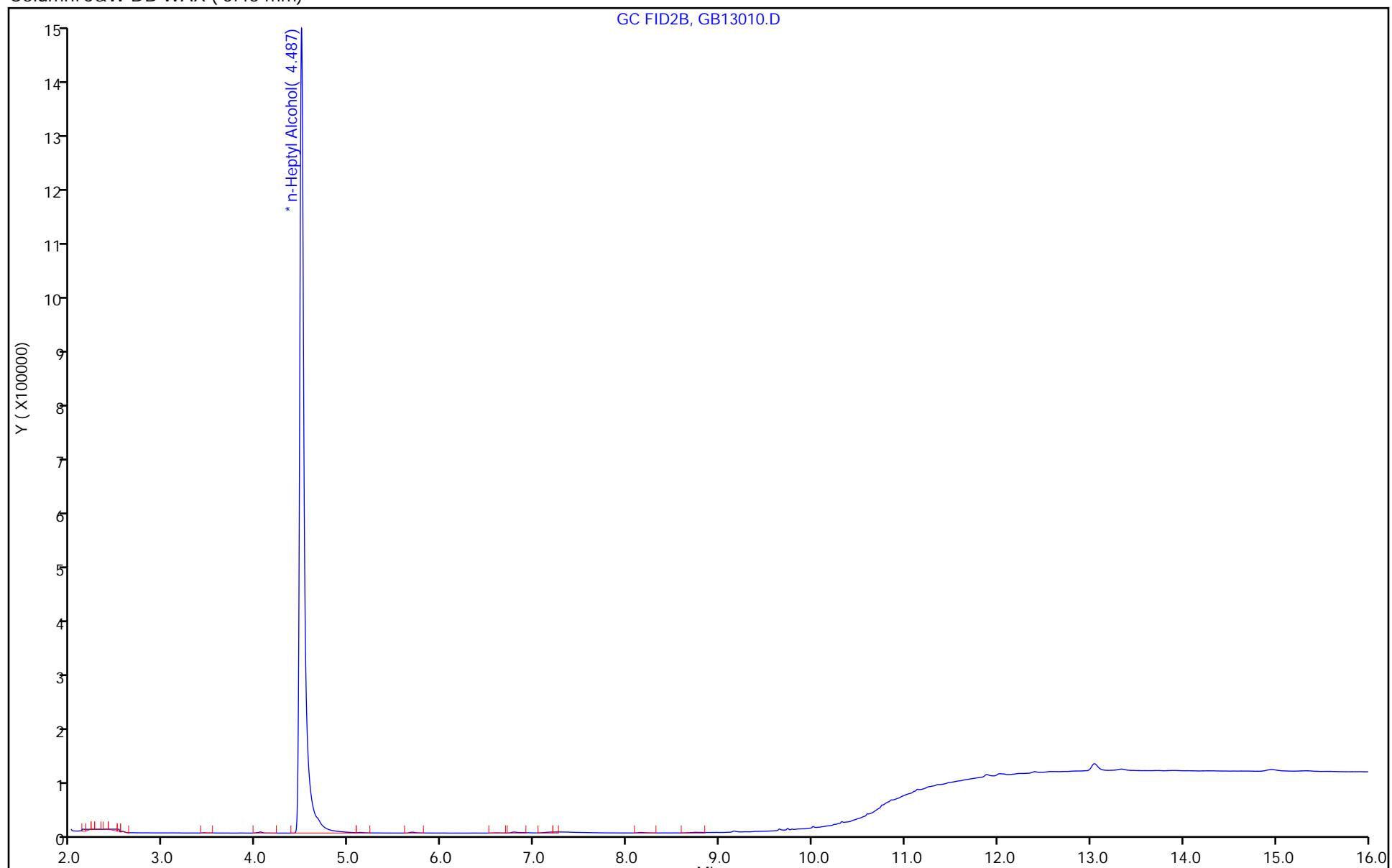
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 680-763222/6

Matrix: Water Lab File ID: GB13006.D

Analysis Method: 8015C GLY Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 02/13/2023 19:51

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 763222 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 17.3 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13006.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Feb-2023 19:51:16 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-006
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:54:56 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:54:56

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|-------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.095 | 3.095 | 0.000 | 912125 | 20.0 | 14.0 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.678 | 3.678 | 0.000 | 898595 | 20.0 | 14.8 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.008 | 4.008 | 0.000 | 1003733 | 20.0 | 13.7 | |
| * 4 n-Heptyl Alcohol | | | | | | M |
| 4.492 | 4.492 | 0.000 | 4145569 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.430 | 5.430 | 0.000 | 72611 | 20.0 | 16.7 | |
| 6 Propylene glycol | | | | | | |
| 6.585 | 6.585 | 0.000 | 293068 | 20.0 | 19.0 | |
| 7 Ethylene glycol | | | | | | |
| 6.852 | 6.852 | 0.000 | 657906 | 20.0 | 17.5 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.740 | 8.740 | 0.000 | 833810 | 20.0 | 17.3 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.734 | 9.734 | 0.000 | 416170 | 20.0 | 18.9 | |
| 10 Triethylene Glycol | | | | | | |
| 10.750 | 10.750 | 0.000 | 385109 | 20.0 | 17.9 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.006 | 12.006 | 0.000 | 750398 | 40.0 | 33.1 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

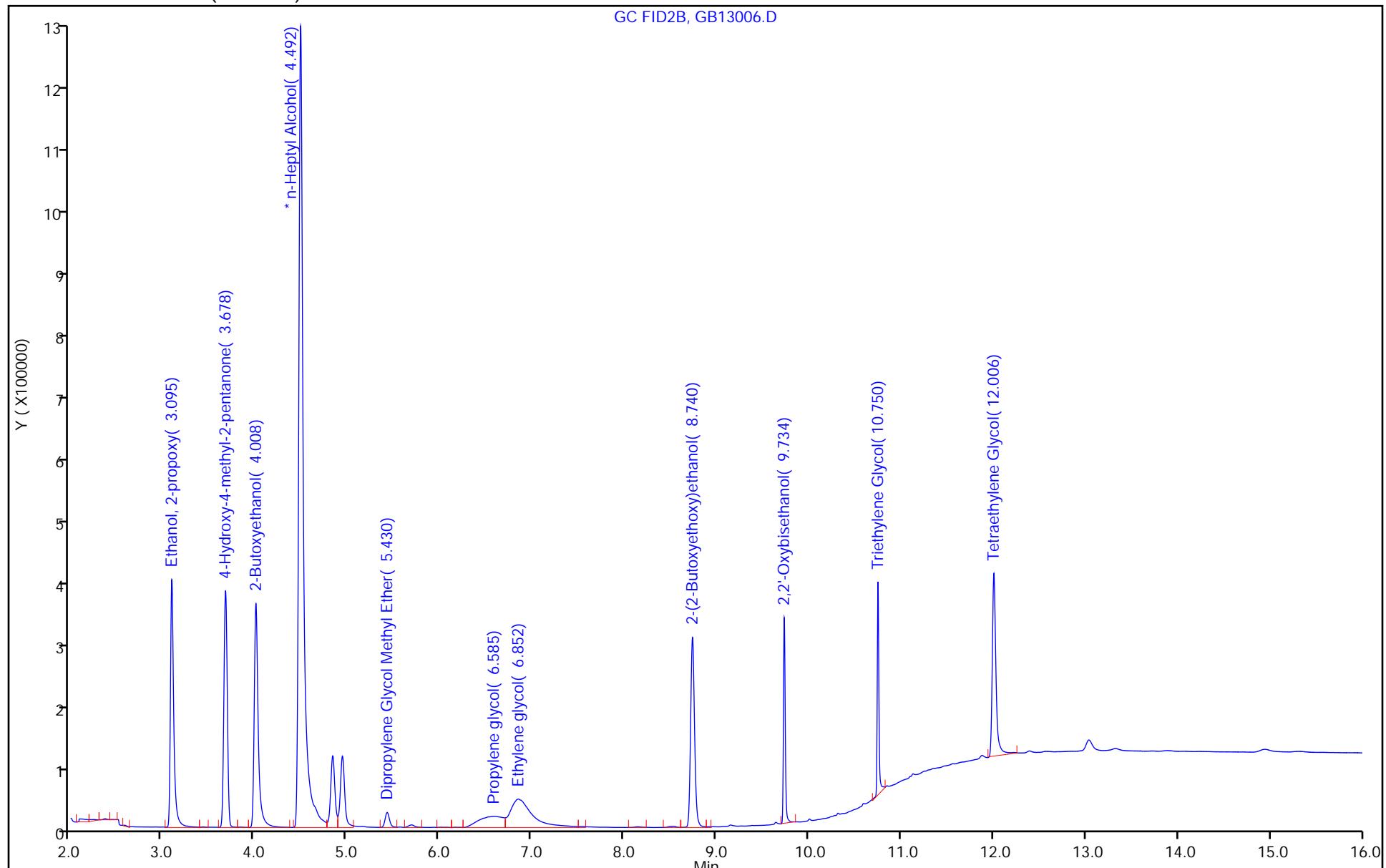
Report Date: 14-Feb-2023 19:54:56

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13006.D
Injection Date: 13-Feb-2023 19:51:16 Instrument ID: CVGG2
Lims ID: lcs Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 6



Eurofins Savannah

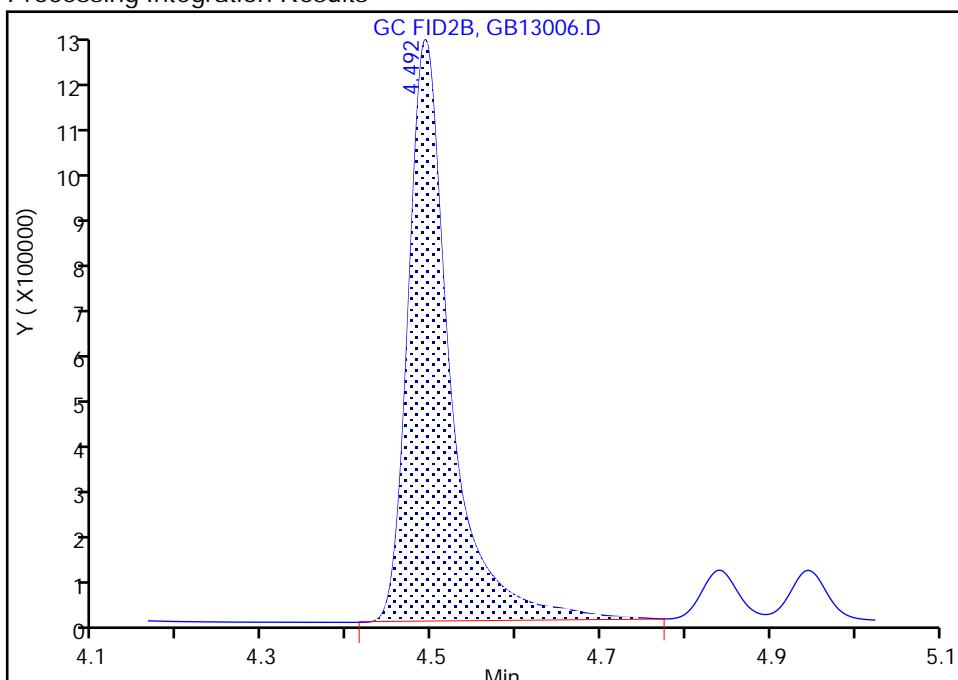
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13006.D
 Injection Date: 13-Feb-2023 19:51:16 Instrument ID: CVGG2
 Lims ID: lcs
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

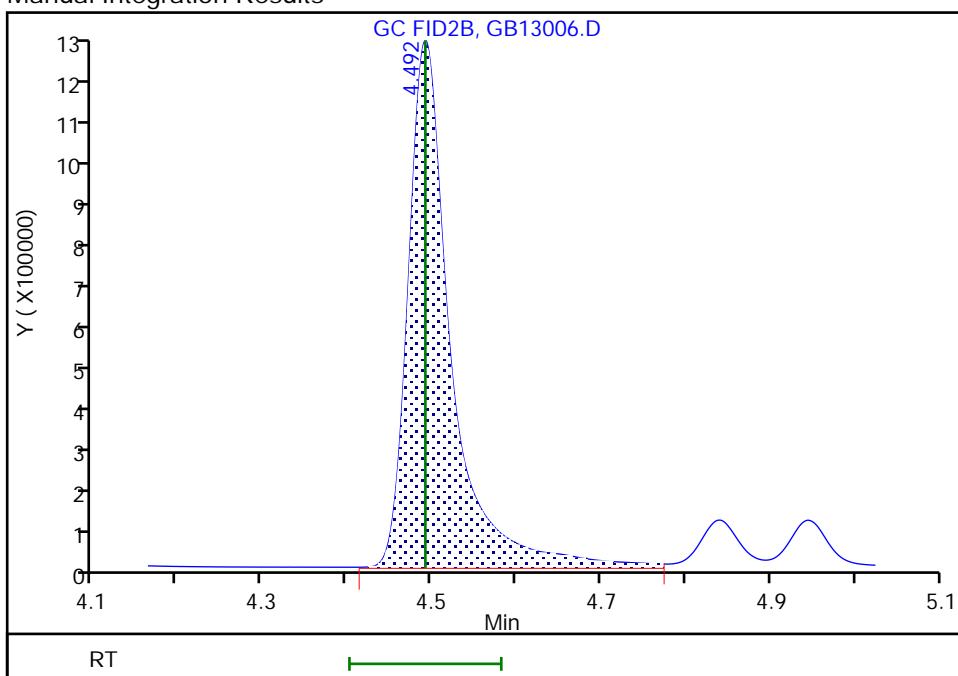
Processing Integration Results

RT: 4.49
 Area: 4072219
 Amount: 50.000000
 Amount Units: ug/ml



Manual Integration Results

RT: 4.49
 Area: 4145569
 Amount: 50.000000
 Amount Units: ug/ml



Reviewer: SK9U, 14-Feb-2023 19:54:50

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 680-763222/7

Matrix: Water Lab File ID: GB13007.D

Analysis Method: 8015C GLY Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 02/13/2023 20:14

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 763222 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 17.1 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13007.D
 Lims ID: lcSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 13-Feb-2023 20:14:38 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-007
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 19:55:17 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:55:17

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.099 | 3.095 | 0.004 | 1335505 | 20.0 | 16.9 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.686 | 3.678 | 0.008 | 1208675 | 20.0 | 16.1 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.006 | 4.008 | -0.002 | 1483151 | 20.0 | 16.8 | |
| * 4 n-Heptyl Alcohol | | | | | | M |
| 4.485 | 4.492 | -0.007 | 5204375 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.434 | 5.430 | 0.004 | 93204 | 20.0 | 17.2 | |
| 6 Propylene glycol | | | | | | |
| 6.596 | 6.585 | 0.011 | 311389 | 20.0 | 15.7 | |
| 7 Ethylene glycol | | | | | | |
| 6.860 | 6.852 | 0.008 | 789915 | 20.0 | 16.6 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.740 | 8.740 | 0.000 | 1038227 | 20.0 | 17.1 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.734 | 9.734 | 0.000 | 524542 | 20.0 | 19.0 | |
| 10 Triethylene Glycol | | | | | | |
| 10.750 | 10.750 | 0.000 | 509963 | 20.0 | 19.0 | |
| 11 Tetraethylene Glycol | | | | | | |
| 12.006 | 12.006 | 0.000 | 1018843 | 40.0 | 36.2 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

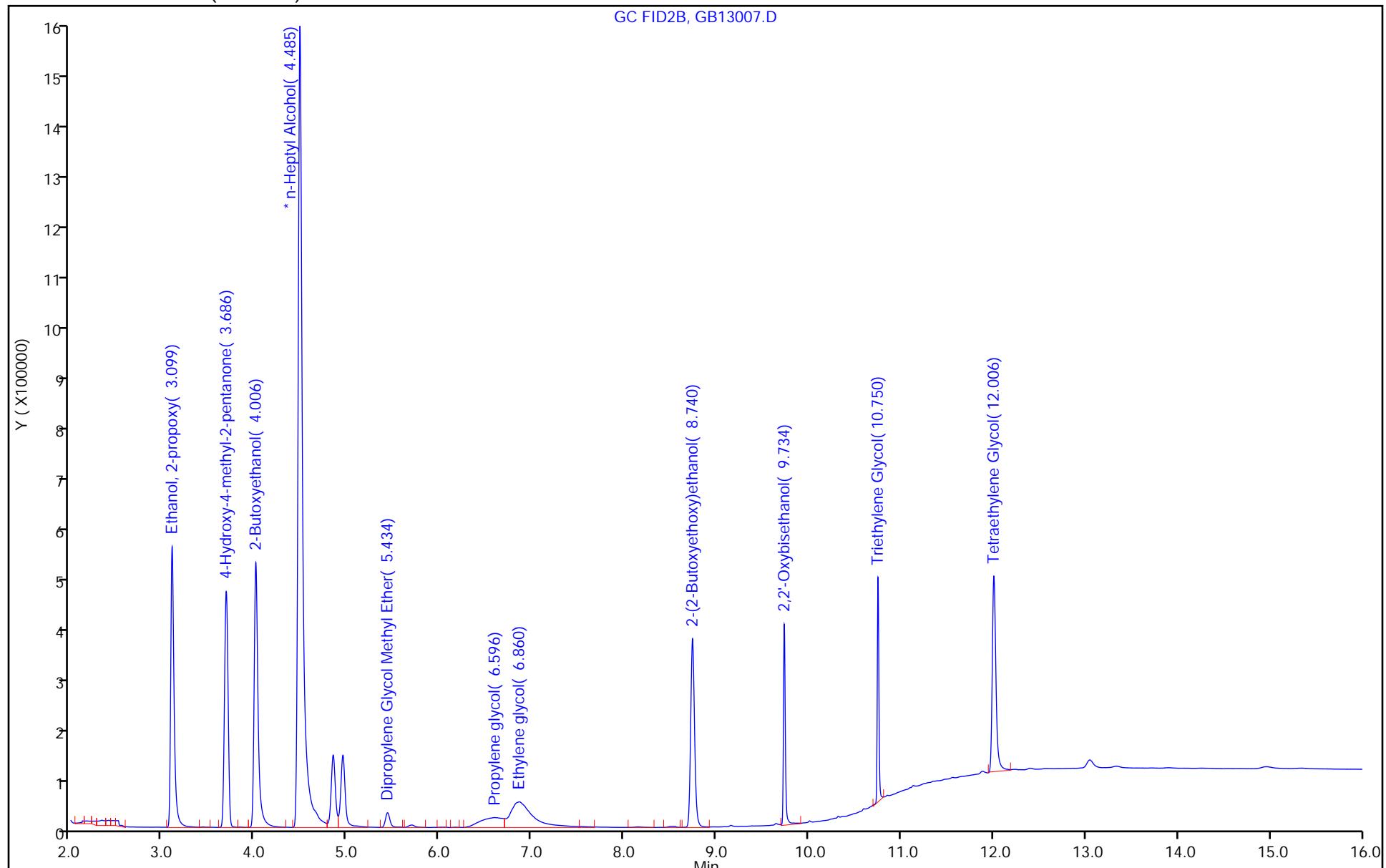
Report Date: 14-Feb-2023 19:55:17

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13007.D
Injection Date: 13-Feb-2023 20:14:38 Instrument ID: CVGG2
Lims ID: lc3d Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 7



Eurofins Savannah

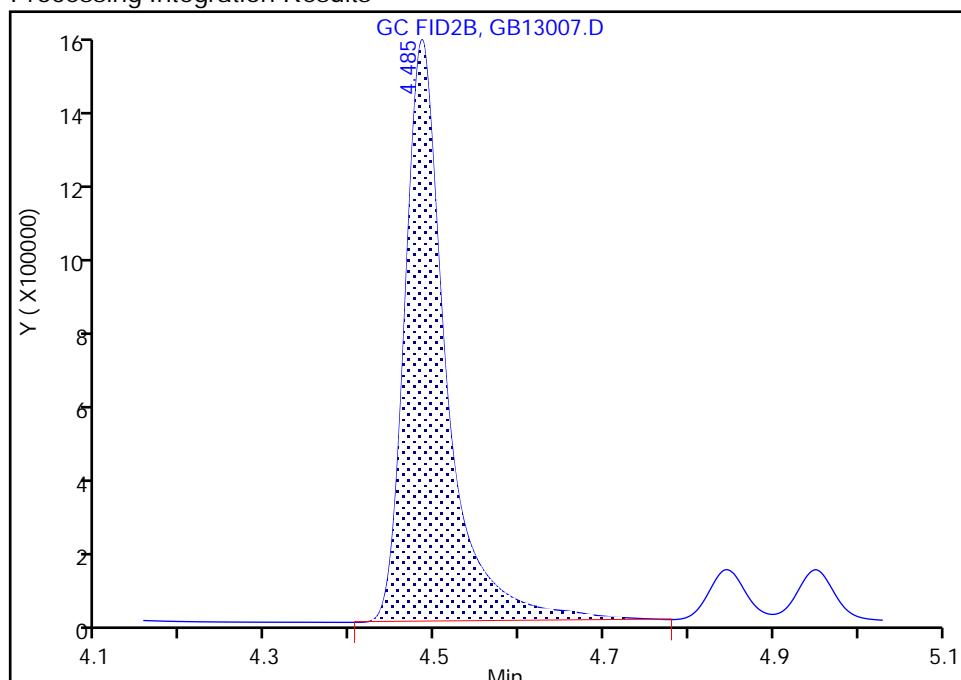
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13007.D
 Injection Date: 13-Feb-2023 20:14:38 Instrument ID: CVGG2
 Lims ID: lcsd
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

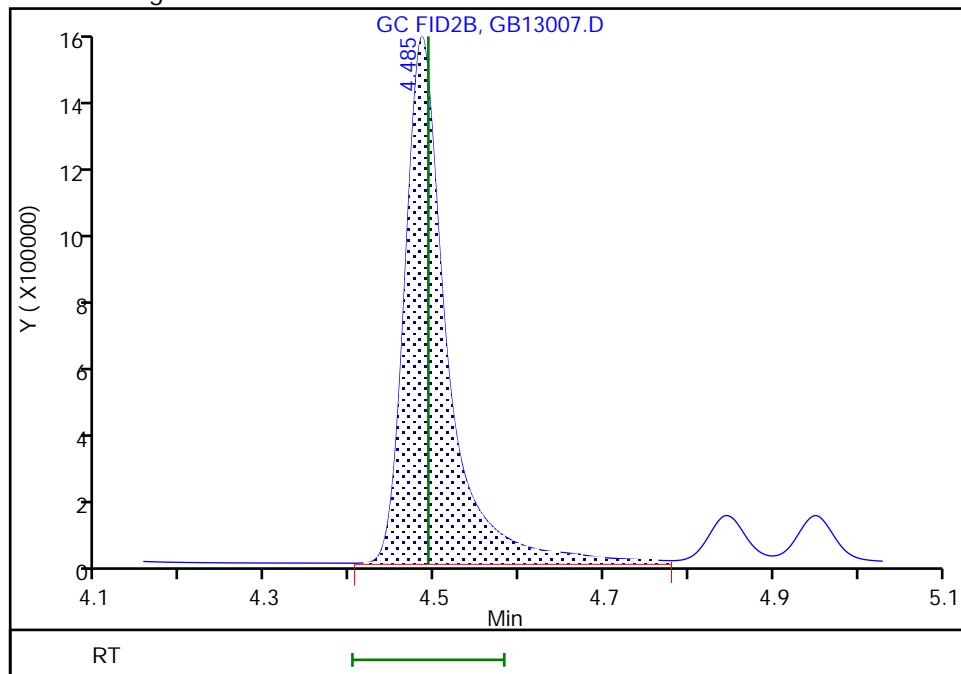
RT: 4.48
 Area: 5120878
 Amount: 50.000000
 Amount Units: ug/ml

Processing Integration Results



RT: 4.48
 Area: 5204375
 Amount: 50.000000
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:55:08

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: AF-HDMW225303-WGN01LF-230
2W1 MS

Lab Sample ID: 580-123350-1 MS

Matrix: Water

Lab File ID: GB13019.D

Analysis Method: 8015C GLY

Date Collected: 02/07/2023 10:00

Extraction Method: _____

Date Extracted: _____

Sample wt/vol: 1 (mL)

Date Analyzed: 02/14/2023 00:53

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 1 (uL)

GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 763222

Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 17.6 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13019.D
 Lims ID: 580-123350-B-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 14-Feb-2023 00:53:58 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-019
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 20:05:53 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 20:07:07

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|------|-------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.092 | 3.091 | 0.001 | 983841 | 20.0 | 13.9 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.674 | 3.670 | 0.004 | 902137 | 20.0 | 13.4 | |
| 3 2-Butoxyethanol | | | | | | M |
| 4.004 | 4.005 | -0.001 | 1065739 | 20.0 | 13.4 | M |
| * 4 n-Heptyl Alcohol | | | | | | M |
| 4.492 | 4.493 | -0.001 | 4487945 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | M |
| 5.429 | 5.428 | 0.001 | 80186 | 20.0 | 17.1 | M |
| 6 Propylene glycol | | | | | | M |
| 6.633 | 6.613 | 0.020 | 355453 | 20.0 | 21.7 | M |
| 7 Ethylene glycol | | | | | | |
| 6.831 | 6.828 | 0.003 | 616905 | 20.0 | 14.6 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.739 | 8.736 | 0.003 | 917242 | 20.0 | 17.6 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.733 | 9.735 | -0.002 | 160141 | 20.0 | 5.43 | |
| 10 Triethylene Glycol | | | | | | |
| 10.748 | 10.751 | -0.003 | 67307 | 20.0 | 1.45 | |
| 11 Tetraethylene Glycol | | | | | | 7 |
| 12.004 | 12.014 | -0.010 | 46591 | 40.0 | -1.65 | 7 |
| LOD = | 4.50 | | | | | |

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

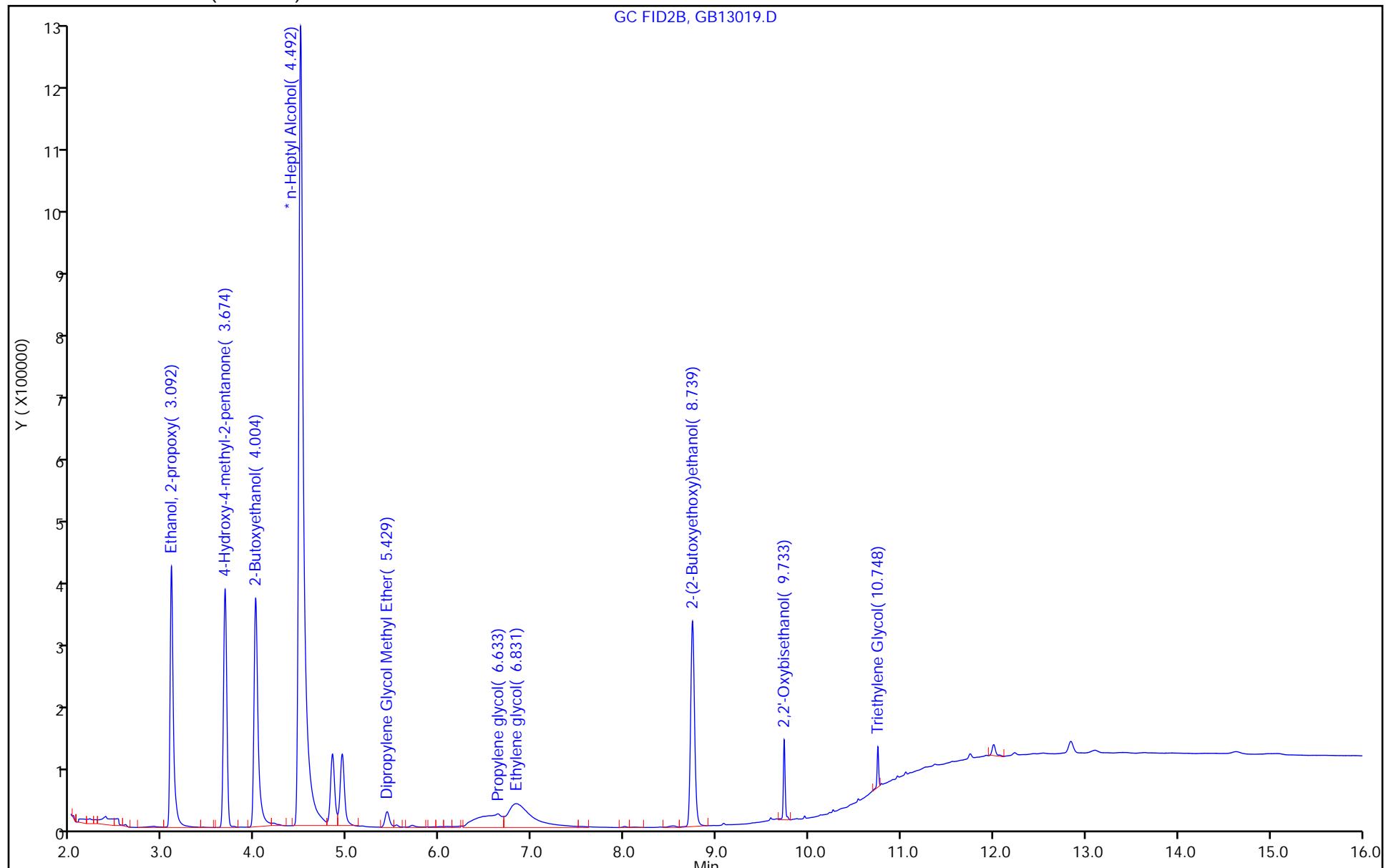
Report Date: 14-Feb-2023 20:07:07

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13019.D
Injection Date: 14-Feb-2023 00:53:58 Instrument ID: CVGG2
Lims ID: 580-123350-B-1 MS Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 19



Eurofins Savannah

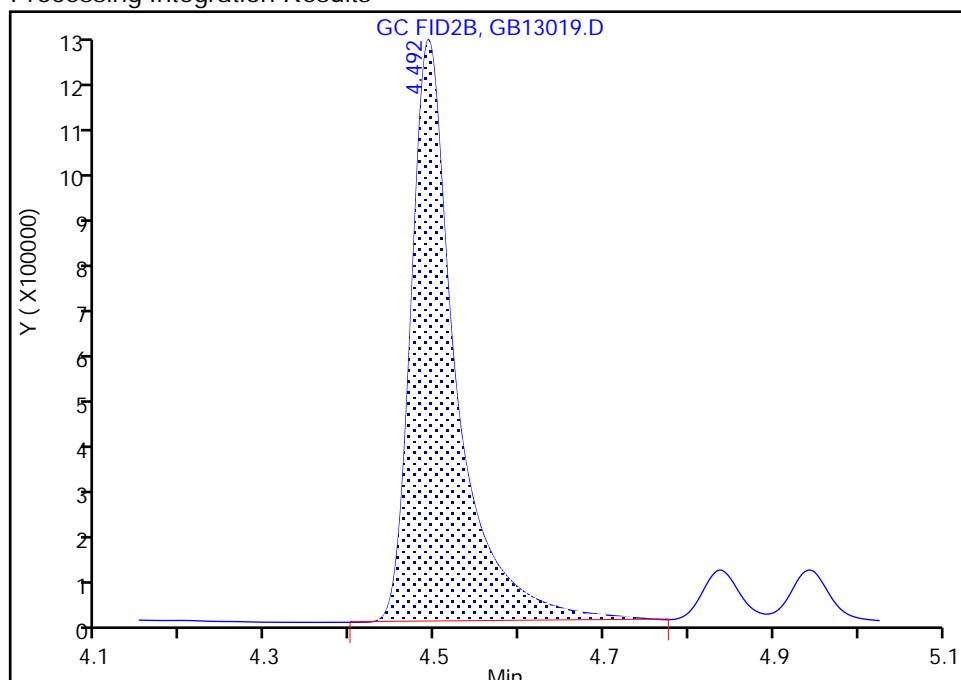
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13019.D
 Injection Date: 14-Feb-2023 00:53:58 Instrument ID: CVGG2
 Lims ID: 580-123350-B-1 MS
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

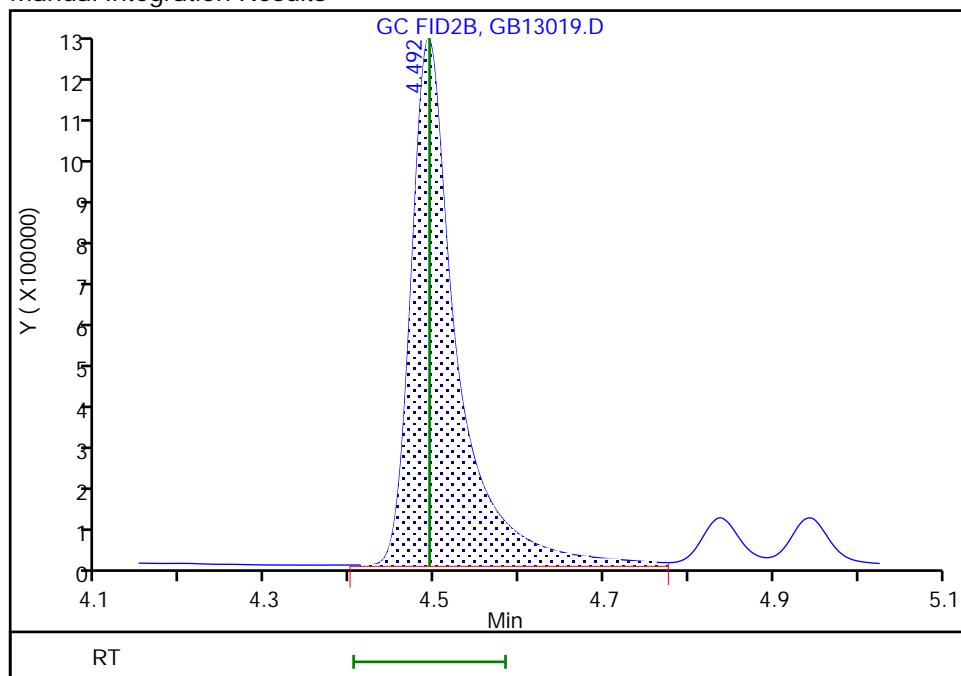
RT: 4.49
 Area: 4422303
 Amount: 50.000000
 Amount Units: ug/ml

Processing Integration Results



RT: 4.49
 Area: 4487945
 Amount: 50.000000
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:44:07

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-123350-1

SDG No.: _____

Client Sample ID: AF-HDMW225303-WGN01LF-230 Lab Sample ID: 580-123350-1 MSD
2W1 MSD

Matrix: Water Lab File ID: GB13020.D

Analysis Method: 8015C GLY Date Collected: 02/07/2023 10:00

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 02/14/2023 01:17

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 763222 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 18.7 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13020.D
 Lims ID: 580-123350-B-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 14-Feb-2023 01:17:13 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083821-020
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 14-Feb-2023 20:05:53 Calib Date: 31-Jan-2023 18:30:20
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 14-Feb-2023 19:45:37

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------|---------------|---------------|----------|---------------|-----------------|-------|
|-----------|---------------|---------------|----------|---------------|-----------------|-------|

| | | | | | | |
|-----------------------------------|--------|--------|---------|------|---------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 3.091 | 3.091 | 0.000 | 937064 | 20.0 | 14.0 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.672 | 3.670 | 0.002 | 912450 | 20.0 | 14.6 | |
| 3 2-Butoxyethanol | | | | | | |
| 4.005 | 4.005 | 0.000 | 1031832 | 20.0 | 13.8 | |
| * 4 n-Heptyl Alcohol | | | | | | M |
| 4.492 | 4.493 | -0.001 | 4246746 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.428 | 5.428 | 0.000 | 78962 | 20.0 | 17.9 | |
| 6 Propylene glycol | | | | | | M |
| 6.626 | 6.613 | 0.013 | 327844 | 20.0 | 21.1 | M |
| 7 Ethylene glycol | | | | | | M |
| 6.832 | 6.828 | 0.004 | 606236 | 20.0 | 15.3 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.737 | 8.736 | 0.001 | 912874 | 20.0 | 18.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.733 | 9.735 | -0.002 | 159868 | 20.0 | 5.84 | |
| 10 Triethylene Glycol | | | | | | |
| 10.749 | 10.751 | -0.002 | 87028 | 20.0 | 2.61 | |
| 11 Tetraethylene Glycol | | | | | | 7 |
| 12.005 | 12.014 | -0.009 | 69780 | 40.0 | -0.4178 | 7 |
| LOD = | 4.50 | | | | | |

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

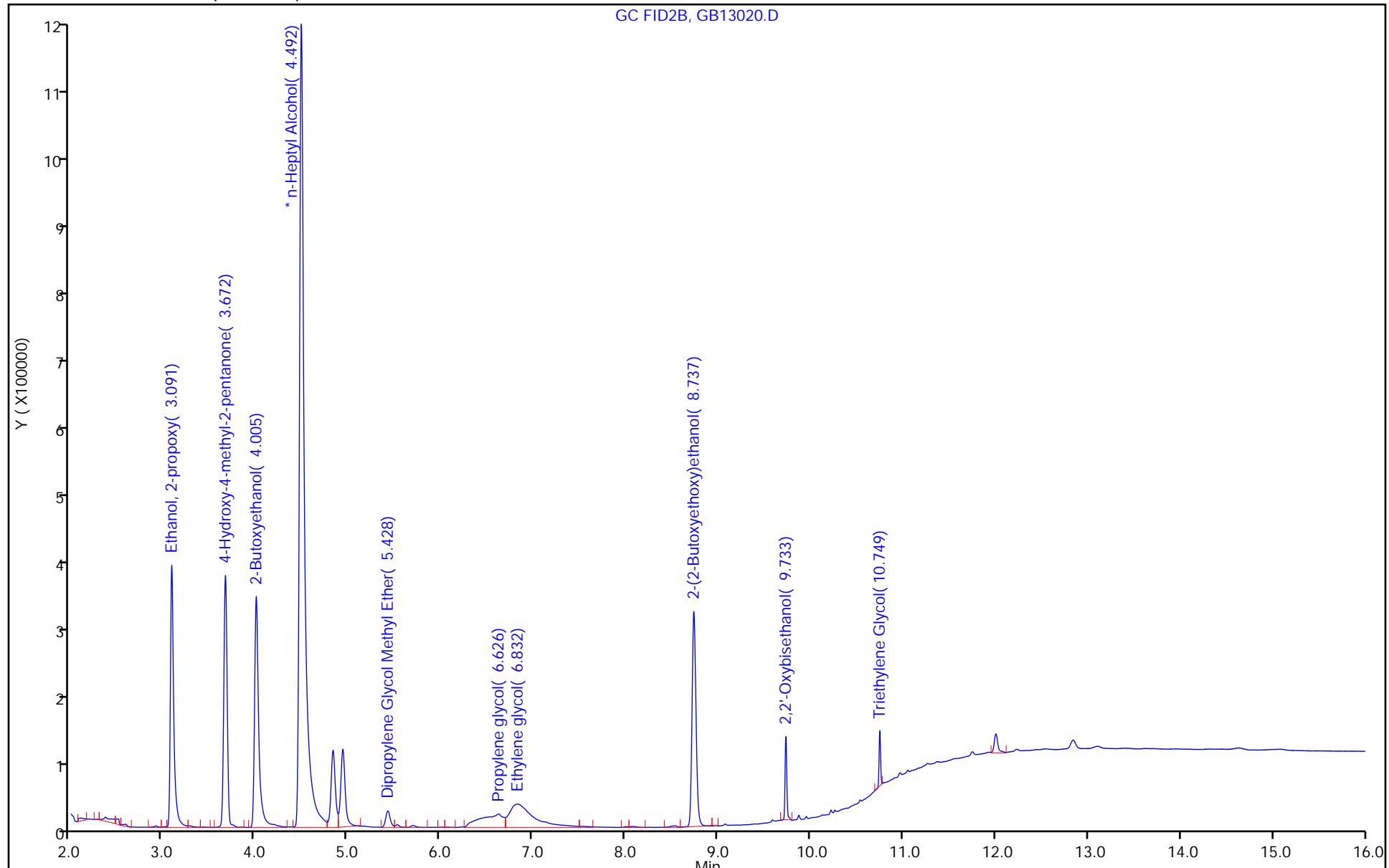
Report Date: 14-Feb-2023 20:07:11

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230213-83821.b\\GB13020.D
Injection Date: 14-Feb-2023 01:17:13 Instrument ID: CVGG2
Lims ID: 580-123350-B-1 MSD Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 20



Eurofins Savannah

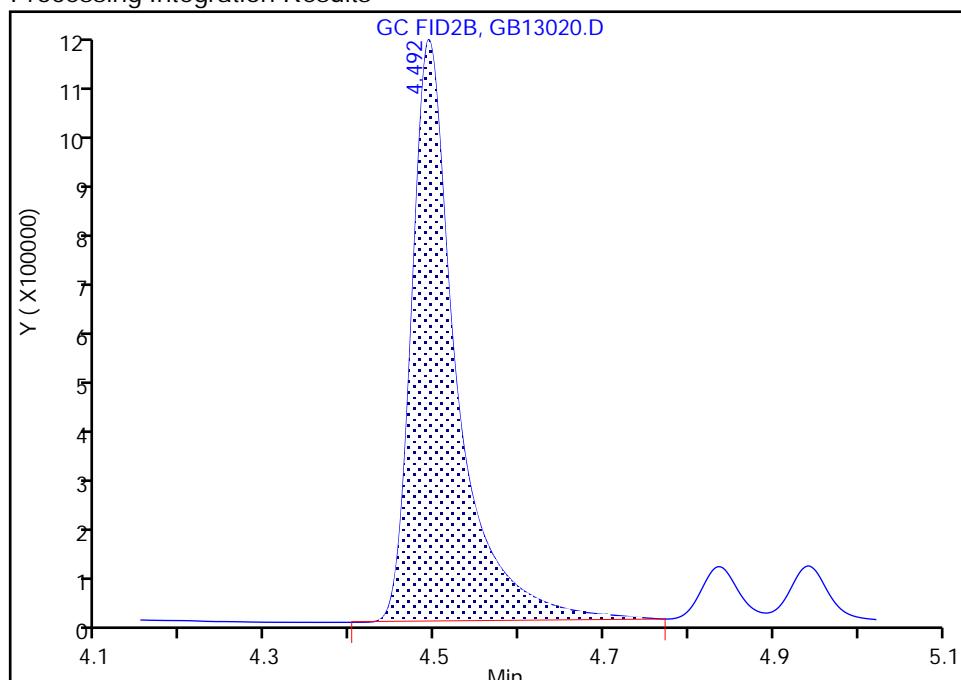
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230213-83821.b\GB13020.D
 Injection Date: 14-Feb-2023 01:17:13 Instrument ID: CVGG2
 Lims ID: 580-123350-B-1 MSD
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

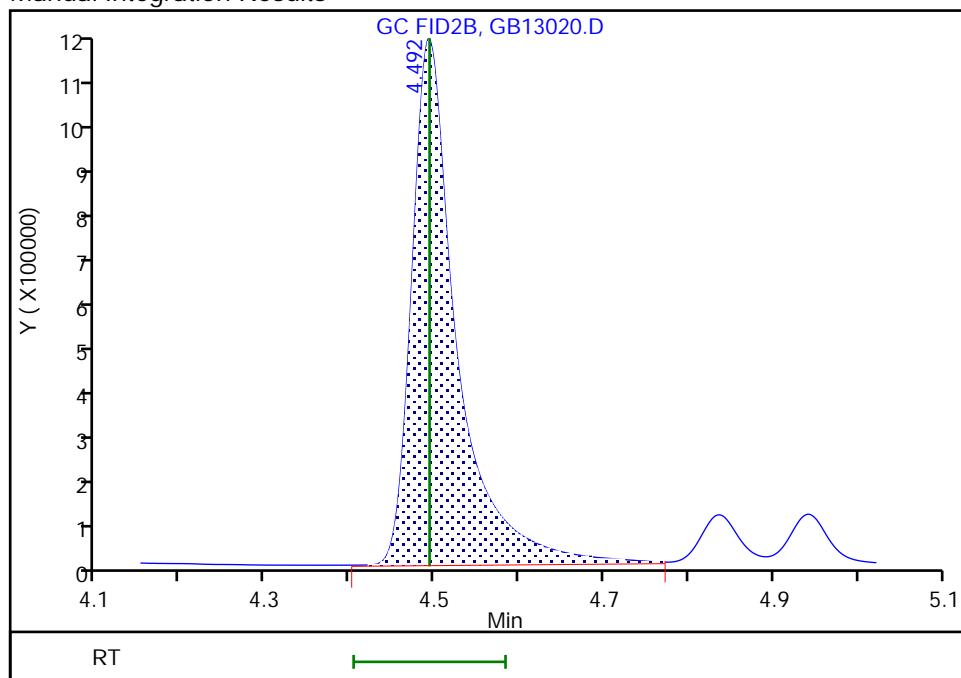
RT: 4.49
 Area: 4178973
 Amount: 50.000000
 Amount Units: ug/ml

Processing Integration Results



RT: 4.49
 Area: 4246746
 Amount: 50.000000
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 14-Feb-2023 19:44:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-123350-1
SDG No.: _____

Instrument ID: CVGG2 Start Date: 01/31/2023 16:10
Analysis Batch Number: 761417 End Date: 02/01/2023 08:04

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|----------------------|------------------|------------------|-----------------|-------------|----------------------|
| IC 680-761417/2 | | 01/31/2023 16:10 | 1 | GA31009.D | J&W DB WAX 0.45 (mm) |
| IC 680-761417/3 | | 01/31/2023 16:33 | 1 | GA31010.D | J&W DB WAX 0.45 (mm) |
| IC 680-761417/4 | | 01/31/2023 16:57 | 1 | GA31011.D | J&W DB WAX 0.45 (mm) |
| ICIS 680-761417/5 | | 01/31/2023 17:20 | 1 | GA31012.D | J&W DB WAX 0.45 (mm) |
| IC 680-761417/6 | | 01/31/2023 17:43 | 1 | GA31013.D | J&W DB WAX 0.45 (mm) |
| IC 680-761417/7 | | 01/31/2023 18:07 | 1 | GA31014.D | J&W DB WAX 0.45 (mm) |
| IC 680-761417/8 | | 01/31/2023 18:30 | 1 | GA31015.D | J&W DB WAX 0.45 (mm) |
| ICV 680-761417/9 CCV | | 01/31/2023 18:53 | 1 | GA31016.D | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 19:17 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 19:40 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 20:03 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 20:27 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 21:36 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 22:00 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 22:23 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 22:46 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 23:33 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 01/31/2023 23:56 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 00:19 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 00:43 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 01:29 | 5 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 01:52 | 25 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 02:15 | 100 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 02:38 | 50 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 03:01 | 50 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 03:25 | 50 | | J&W DB WAX 0.45 (mm) |
| CCV 680-761417/33 | | 02/01/2023 04:11 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 05:21 | 500 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 05:44 | 500 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 06:07 | 100 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 06:31 | 50 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 06:54 | 100 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/01/2023 07:17 | 10000 | | J&W DB WAX 0.45 (mm) |
| CCV 680-761417/43 | | 02/01/2023 08:04 | 1 | | J&W DB WAX 0.45 (mm) |

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-123350-1
SDG No.: _____
Instrument ID: CVGG2 Start Date: 02/13/2023 19:28
Analysis Batch Number: 763222 End Date: 02/14/2023 07:06

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------|--------------------------------------|------------------|-----------------|-------------|----------------------|
| CCVIS 680-763222/5 | | 02/13/2023 19:28 | 1 | GB13005.D | J&W DB WAX 0.45 (mm) |
| LCS 680-763222/6 | | 02/13/2023 19:51 | 1 | GB13006.D | J&W DB WAX 0.45 (mm) |
| LCSD 680-763222/7 | | 02/13/2023 20:14 | 1 | GB13007.D | J&W DB WAX 0.45 (mm) |
| MB 680-763222/10 | | 02/13/2023 21:24 | 1 | GB13010.D | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/13/2023 21:47 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/13/2023 22:11 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/13/2023 22:34 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/13/2023 22:57 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/13/2023 23:20 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/13/2023 23:44 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 00:07 | 1 | | J&W DB WAX 0.45 (mm) |
| 580-123350-1 | AF-HDMW225303-WGN01LF -2302W1 | 02/14/2023 00:30 | 1 | GB13018.D | J&W DB WAX 0.45 (mm) |
| 580-123350-1 MS | AF-HDMW225303-WGN01LF -2302W1 MS | 02/14/2023 00:53 | 1 | GB13019.D | J&W DB WAX 0.45 (mm) |
| 580-123350-1 MSD | AF-HDMW225303-WGN01LF -2302W1 MSD | 02/14/2023 01:17 | 1 | GB13020.D | J&W DB WAX 0.45 (mm) |
| 580-123350-2 | AF-RHMW10-WGN01LF-230 2W1 | 02/14/2023 01:40 | 1 | GB13021.D | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 02:03 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 02:26 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 02:50 | 1 | | J&W DB WAX 0.45 (mm) |
| CCV 680-763222/26 | | 02/14/2023 03:36 | 1 | GB13026.D | J&W DB WAX 0.45 (mm) |
| 580-123350-3 | AF-RHMW10-WGFD01LF-23 02W1 | 02/14/2023 04:46 | 1 | GB13029.D | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 05:09 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 05:33 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 05:56 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/14/2023 06:19 | 1 | | J&W DB WAX 0.45 (mm) |
| CCV 680-763222/35 | | 02/14/2023 07:06 | 1 | GB13035.D | J&W DB WAX 0.45 (mm) |

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.:

Batch Number: 761417

Batch Start Date: 01/31/23 16:10

Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY

Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | FinalAmount | SG_Gly_CAL_00052 | SG,GLY,ISTD_00105 | SG_GlyICV_00052 | | |
|----------------------|------------------|--------------|-------|-------------|------------------|-------------------|-----------------|--|--|
| IC 680-761417/2 | | 8015C GLY | | 1 mL | 50 uL | 10 uL | | | |
| IC 680-761417/3 | | 8015C GLY | | 1 mL | 40 uL | 10 uL | | | |
| IC 680-761417/4 | | 8015C GLY | | 1 mL | 25 uL | 10 uL | | | |
| ICIS 680-761417/5 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| IC 680-761417/6 | | 8015C GLY | | 1 mL | 5 uL | 10 uL | | | |
| IC 680-761417/7 | | 8015C GLY | | 1 mL | 2.5 uL | 10 uL | | | |
| IC 680-761417/8 | | 8015C GLY | | 1 mL | 1 uL | 10 uL | | | |
| ICV 680-761417/9 CCV | | 8015C GLY | | 1 mL | | 10 uL | 10 uL | | |

Batch Notes

| | |
|--|--|
| | |
|--|--|

| Basis | Basis Description |
|-------|-------------------|
| | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8015C GLY

Page 1 of 1

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah

Job No.: 580-123350-1

SDG No.:

Batch Number: 763222

Batch Start Date: 02/13/23 19:28

Batch Analyst: Meincke, Griffin E

Batch Method: 8015C GLY

Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | FinalAmount | SG_Gly_CAL_00052 | SG,GLY,ISTD_00105 | | | |
|-----------------------|---|--------------|-------|-------------|------------------|-------------------|--|--|--|
| CCVIS 680-763222/5 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| LCS 680-763222/6 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| LCSD 680-763222/7 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| MB 680-763222/10 | | 8015C GLY | | 1 mL | | 10 uL | | | |
| 580-123350-B-1 | AF-HDMW225303-WG N01LF-2302W1 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| 580-123350-B-1 | AF-HDMW225303-WG MS N01LF-2302W1 | 8015C GLY | T | 1 mL | 10 uL | 10 uL | | | |
| 580-123350-B-1 | AF-HDMW225303-WG MSD N01LF-2302W1 | 8015C GLY | T | 1 mL | 10 uL | 10 uL | | | |
| 580-123350-A-2 | AF-RHMW10-WGN01L F-2302W1 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| CCV 680-763222/26 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| 580-123350-A-3 | AF-RHMW10-WGFD01 LF-2302W1 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| CCV 680-763222/35 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |

Batch Notes

| Basis | Basis Description |
|-------|-------------------|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8015C GLY

Page 1 of 1

Subcontract Data

Shipping and Receiving Documents

Eurofins FGS, Seattle

5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record



Environment Testing
America

| Client Information | | Sampler: <u>Matt Yim</u> | Lab P/M: <u>Elaine Walker</u> | Carrier Tracking No(s): FedEx | COC No: 2302W/AFEA04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|--|---|---|------------|----------|----------|-------------|--|------------|------------|-----------------|------------|-----------|-----------------|--------------|------------------------|----------|---------|-------------|-------------------|--------------|----------|----------|----------|------------|----------|---------|---------------------|----------------|--|--|
| Client Contact: | | Phone: <u>708-349-4738</u> | E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u> | State of Origin: Hawaii | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Job #: <u></u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Preservation Codes:</td> <td>A - HCl</td> <td>M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> <td>O - AshlaO2</td> </tr> <tr> <td>C - Zn Acetate</td> <td>P - Na2O4S</td> <td>Q - NaHSO4</td> </tr> <tr> <td>D - Nitric Acid</td> <td>R - Na2SO3</td> <td>S - H2SO4</td> </tr> <tr> <td>E - NaHSO4</td> <td>G - Anchitor</td> <td>T - TSP Dodecylglyrate</td> </tr> <tr> <td>F - MeOH</td> <td>I - Ice</td> <td>U - Acetone</td> </tr> <tr> <td>G - Ascorbic Acid</td> <td>J - DI Water</td> <td>V - MCAA</td> </tr> <tr> <td>H - DMSO</td> <td>K - EDTA</td> <td>W - pH 4-5</td> </tr> <tr> <td>I - EtOH</td> <td>L - EDA</td> <td>Z - other (specify)</td> </tr> <tr> <td colspan="3">Other: <u></u></td> </tr> </table> | | | | | | Preservation Codes: | A - HCl | M - Hexane | B - NaOH | N - None | O - AshlaO2 | C - Zn Acetate | P - Na2O4S | Q - NaHSO4 | D - Nitric Acid | R - Na2SO3 | S - H2SO4 | E - NaHSO4 | G - Anchitor | T - TSP Dodecylglyrate | F - MeOH | I - Ice | U - Acetone | G - Ascorbic Acid | J - DI Water | V - MCAA | H - DMSO | K - EDTA | W - pH 4-5 | I - EtOH | L - EDA | Z - other (specify) | Other: <u></u> | | |
| Preservation Codes: | A - HCl | M - Hexane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B - NaOH | N - None | O - AshlaO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C - Zn Acetate | P - Na2O4S | Q - NaHSO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D - Nitric Acid | R - Na2SO3 | S - H2SO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E - NaHSO4 | G - Anchitor | T - TSP Dodecylglyrate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F - MeOH | I - Ice | U - Acetone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G - Ascorbic Acid | J - DI Water | V - MCAA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H - DMSO | K - EDTA | W - pH 4-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I - EtOH | L - EDA | Z - other (specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other: <u></u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Number of containers: <u>3</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Instructions/Note: <u></u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Performance MS/MS/MSD (yes or No): <u>Yes</u></td> <td colspan="5">8015C-Dai-GL-D5/2-(2-butoxethoxy)-ethanol</td> </tr> <tr> <td>Field Filed Sample (Yes or No): <u>Yes</u></td> <td colspan="5"></td> </tr> <tr> <td colspan="6">BT=Base, A=Acid</td> </tr> </table> | | | | | | Performance MS/MS/MSD (yes or No): <u>Yes</u> | 8015C-Dai-GL-D5/2-(2-butoxethoxy)-ethanol | | | | | Field Filed Sample (Yes or No): <u>Yes</u> | | | | | | BT=Base, A=Acid | | | | | | | | | | | | | | | | | |
| Performance MS/MS/MSD (yes or No): <u>Yes</u> | 8015C-Dai-GL-D5/2-(2-butoxethoxy)-ethanol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Filed Sample (Yes or No): <u>Yes</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BT=Base, A=Acid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Identification | | Sample Date: <u>2/19/23</u> | Sample Time: <u>10:00</u> | Sample Type (C=comp, G=grab): <u>G</u> | Matrix (Miner, Solid, On-carrier, Off-carrier, Acid): <u>W</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preservation Code: <u>A</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF-HDMW225303-WGN01LF-2302W1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison A <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Pathological | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prelim data (Level 102)=see TAT above. DoD Stage 4 reson Standard TAT: AECOM EQUUS EDD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by: | | Date/Time: <u>2/17/23 1310</u> | Company: <u>AECOM</u> | Method of Shipment: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <u>Matt Yim Matt Yim</u> | | Received by: <u>Elaine Walker Docarmo</u> | Date/Time: <u>2/17/23 1310</u> | Company: <u>AECOM</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <u>Miranda Docarmo</u> | | Received by: <u>Miranda Docarmo</u> | Date/Time: <u>2/17/23 1100</u> | Company: <u>AECOM</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Custody Seal No.: <u>5.7 / S.7</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooler Temperature(s) °C and Other Remarks: <u></u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Chain of Custody Record

| | | | | | |
|---|--|---|--------------------------------------|--|--|
| Client Information | | | Sampler: <u>Mitch Yin</u> | Lab P/M: <u>Elaine Walker</u> | COC No.: <u>2302W1AFEAO3</u> |
| Client Contact: | Phone: <u>808-349-4737</u> | E-Mail: <u>Elaine.Walker@EurofinsET.com</u> | State of Origin: <u>Hawaii</u> | Page: <u>Page 1 of 1</u> | |
| Company: <u>AECOM</u> | PWSID: <u></u> | Analysis Requested | | | Job #: <u></u> |
| Address: <u>1001 Bishop St. Suite 1600</u> | Due Date Requested: <u>see subcontract</u> | TAT Requested (days): <u>Rush - ASAP</u> | Preservation Codes: | | |
| City: <u>Honolulu</u> | State, Zip: <u>Hawaii 96813</u> | Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | M - Hexane | N - None | O - AsNaO2 |
| Phone: <u>808-954-4512 / 770-331-0794</u> | Email: <u>Watson.Tanji(watson.tanji@aecom.com)/ Mark.Kromis(mark.kromis@aecom.com)</u> | PO #: | P - Na2O/S | Q - Na2SO3 | R - Na2SO4 |
| Project Name: <u>CTO N6274223F0104</u> | Site: <u>RHSF</u> | WO #: | S - H2SO4 | T - TSP Dodecylhydrate | U - Acetone |
| 8015C-DAL-GL-D5/(2-(2-butoxyethoxy)-ethanol) | | | V - MCA/A | W - pH 4-5 | Z - other (specify) <u></u> |
| Perfrom MSDS (Yes or No) <input checked="" type="checkbox"/> | | | Other: <u></u> | | |
| Sample Identification | | | | | |
| Sample ID: | Sample Date: <u>2/17/23</u> | Sample Time: <u>12:05</u> | Sample Type: <u>G=grab</u> | Matrix: <u>Water, Sediment, Oil/Fat/Water, Air</u> | Preservation Code: <u>A</u> |
| AF-RHMM10-WGN01LF-2302W1 | <u>2/17/23</u> | <u>12:05</u> | <u>G</u> | <u>W</u> | <u>N X</u> |
| AF-RHMM10-WGFD01LF-2302W1 | <u>2/17/23</u> | <u>12:05</u> | <u>G</u> | <u>W</u> | <u>N X</u> |
| Possible Hazard Identification | | | | | |
| <input checked="" type="checkbox"/> Non-Hazard | <input type="checkbox"/> Flammable | <input type="checkbox"/> Skin Irritant | <input type="checkbox"/> Poison B | <input type="checkbox"/> Known | <input checked="" type="checkbox"/> Radiological |
| Deliverable Requested I, II, III, IV. Other (specify) <u>4 report standard TAT AECOM EQUALS EDD</u> | | | | | |
| Prelim data (Level 1 or 2)=see TAT above. DoD Stage | | | | | |
| Empty Kit Relinquished by: | | | | | |
| Relinquished by: <u>Mitch Yin</u> | Date/Time: <u>2/17/23</u> | Company: <u>AECOM</u> | Received by: <u>Miranda DeGremio</u> | Date/Time: <u>2/17/23</u> | Company: <u>AECOM</u> |
| Relinquished by: <u>Miranda DeGremio</u> | Date/Time: <u>2/17/23</u> | Company: <u>AECOM</u> | Received by: <u>Miranda DeGremio</u> | Date/Time: <u>2/17/23</u> | Company: <u>AECOM</u> |
| Custody Seals intact <input checked="" type="checkbox"/> Custody Seal No.: <u>5.7</u> | | | | | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| Cooler Temperature(s) °C and Other Remarks: <u>5.7 / 5.7</u> | | | | | |
| Special Instructions/Note: <u></u> | | | | | |
| Total Number of Containers <u>1</u> | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | |
| <input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Special Instructions/QC Requirements: DOD QSM project | | | | | |
| Method of Shipment: | | | | | |

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-123350-1

Login Number: 123350

List Source: Eurofins Savannah

List Number: 2

List Creation: 02/13/23 12:25 PM

Creator: Meincke, Griffin E

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | | |
| The cooler's custody seal, if present, is intact. | | |
| Sample custody seals, if present, are intact. | | |
| The cooler or samples do not appear to have been compromised or tampered with. | | |
| Samples were received on ice. | | |
| Cooler Temperature is acceptable. | | |
| Cooler Temperature is recorded. | | |
| COC is present. | | |
| COC is filled out in ink and legible. | | |
| COC is filled out with all pertinent information. | | |
| Is the Field Sampler's name present on COC? | | |
| There are no discrepancies between the containers received and the COC. | | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | | |
| Sample containers have legible labels. | | |
| Containers are not broken or leaking. | | |
| Sample collection date/times are provided. | | |
| Appropriate sample containers are used. | | |
| Sample bottles are completely filled. | | |
| Sample Preservation Verified. | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | | |
| Multiphasic samples are not present. | | |
| Samples do not require splitting or compositing. | | |
| Residual Chlorine Checked. | | |